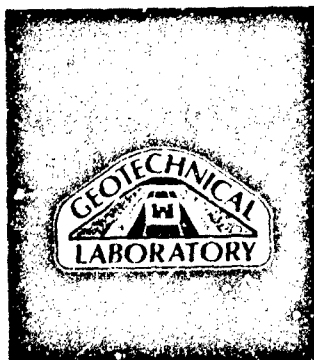
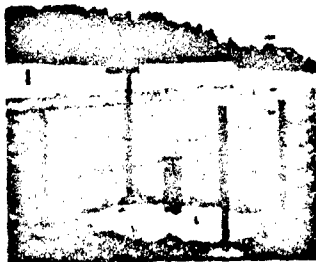
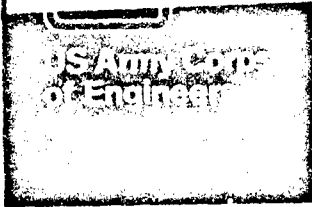


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TECHNICAL REPORT GL-92-20

# ABERDEEN AREA FIRE TRAINING AREA HYDROLOGIC ASSESSMENT ABERDEEN PROVING GROUND

by

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December 1992

Final Report

Approved For Public Release: Distribution Is Unlimited

93-03884



Prepared for Environmental Management Division  
Directorate of Safety, Health, and Environment  
Aberdeen Proving Ground, Maryland

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REPORT DOCUMENTATION PAGE			Form Approved OMB No. 0704-0188	
<small>Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.</small>				
1. AGENCY USE ONLY (Leave blank)	2. REPORT DATE December 1992	3. REPORT TYPE AND DATES COVERED Final report		
4. TITLE AND SUBTITLE Aberdeen Area Fire Training Area Hydrologic Assessment, Aberdeen Proving Ground			5. FUNDING NUMBERS	
6. AUTHOR(S) Charlie B. Whitten, S. Paul Miller, Nancy A. Derryberry, Roy Wade				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) U.S. Army Engineer Waterways Experiment Station Geotechnical and Environmental Laboratories 3909 Halls Ferry Road, Vicksburg, MS 39180-6199			8. PERFORMING ORGANIZATION REPORT NUMBER  Technical Report GL-92-20	
9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES) Environmental Management Division Directorate of Safety, Health, and Environment Aberdeen Proving Ground, Maryland			10. SPONSORING / MONITORING AGENCY REPORT NUMBER	
11. SUPPLEMENTARY NOTES  Available from National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161.				
12a. DISTRIBUTION / AVAILABILITY STATEMENT Approved for public release; distribution is unlimited			12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words)  <p>In 1986, the U.S. Environmental Protection Agency (EPA) issued a Hazardous Waste Management Permit to Aberdeen Proving Ground (APG), Maryland. The permit required a Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) of sites in the Aberdeen Area (AA) of APG. Recommendations from a draft RFA report suggested further investigations at the Fire Training Area (FTA). This study is in response to the recommendations. Three soil borings and twelve groundwater monitor wells were installed. Three rounds of groundwater sampling and analyses were conducted.</p> <p>APG lies in the Coastal Plain Physiographic Province which is underlain by sediments consisting of three major units, the Potomac Group, the Talbot Formation, and Recent (Holocene) sediments. The Lower Cretaceous sediments of the Potomac Group lie unconformably on the older Precambrian rocks.</p> <p>In the early 1960's fire training was initiated and training has been conducted as often as once a week. Trenches were ignited after being filled with oil and water. The exercises concluded in 1989.</p> <p style="text-align: right;">(Continued)</p>				
14. SUBJECT TERMS Aberdeen Proving Ground, Maryland Groundwater Groundwater contamination			15. NUMBER OF PAGES 325	
			16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT UNCLASSIFIED	18. SECURITY CLASSIFICATION OF THIS PAGE UNCLASSIFIED	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT	

13. (Concluded).

During the RFA shallow boring soil gas surveys were conducted for volatile organic compound (VOC) contamination at the FTA. Deeper borings were conducted for monitor wells and geologic mapping. Sampling and monitoring of groundwater, surface water, and soils was conducted.

Analyses of groundwater from the monitor wells and two supply wells indicate the AFTA is contributing chemical contaminants to the upper aquifer, which is at a depth of approximately 30 feet below ground surface. VOC's were the only contaminants found in the groundwater that consistently exceeded established maximum contaminant (MCL) levels. Cadmium, lead, and nickel exceeded established MCL values in at least one well in the three sample rounds. Surface water samples from the bermed pits and the separation pond contained cadmium, lead, methylene chloride, and benzene that exceeded MCL guidelines. Chromium, copper, lead, silver, and zinc in the surface water samples exceeded fresh and/or marine water quality criteria. Surface soil samples show guidelines were exceeded at one or more training areas. These guidelines were exceeded by cadmium, lead, zinc, mercury, silver, DDT, PCB-1248, and tetrachloroethane.

Report recommendations include:

- a. Soil sampling to define the horizontal and vertical extent of soil contamination.
- b. Monitor wells should be installed to define the horizontal and vertical extent of groundwater contamination.
- c. Monitor wells should be installed between the AFTA and municipal water wells to determine the chemical characteristics of the groundwater.
- d. Quarterly monitoring of water levels in the wells should be conducted to determine any seasonal changes and groundwater gradients.
- e. Monitor wells should be analyzed for compounds on the Target Compound List and the Target Analyte List.
- f. Monitor wells should be analyzed for water quality parameters, oil and grease, and total recoverable hydrocarbons.

Regulations, permissible contaminant levels, toxic and acute exposure limits, and other aspects cited in this report represent those pending at the time of the study. Those same limits and levels may not be current or accurate at the time of report publication.



## PREFACE

This study was performed during the period September 1989 to July 1991 by the U.S. Army Engineer Waterways Experiment Station (WES) for the Environmental Management Division, Directorate of Safety, Health, and Environment, Aberdeen Proving Ground (APG), Aberdeen, Maryland. The work was performed under the authority provided by Project Order Number 08-88 (dated 22 September 1988) with Amendments 1 and 2 and MIPR's 03-90 (dated 13 November 1989) and 14-91 (dated 4 December 1990). The investigation reported herein was completed in 1990 and this report, in draft form, was reviewed by the Aberdeen Proving Ground and the Environmental Protection Agency, Region III. Subsequent and ongoing field investigations have, and will provide, additional data about the Aberdeen Area (AA) Fire Training Area and will influence findings presented in this report. Subsequent studies include an August 1991 groundwater sampling round and current (1992) field investigations in the Fire Training Area and nearby western Aberdeen Area-APG (AA-PG) boundary. Despite the subsequent studies, both the sponsor and WES agreed it was desirable to publish this interim report to preserve the technical data contained herein and funds were provided by the sponsor for that purpose in the fall 1992.

The assessment was performed by Charlie B. Whitten, S. Paul Miller, and Nancy A. Derryberry, Engineering Geology Branch (EGB), Earthquake Engineering and Geosciences Division (EEGD), Geotechnical Laboratory (GL), WES. Paul M. Lucas, EGB, was the field geologist. A data base for the analytical data was developed by Benita Allen, Rock Mechanics Branch, Soil and Rock Mechanics Division, GL. Drilling crews were under the supervision of Mark A. Vispi, Chief, In Situ Evaluation Branch, EEGD. Sampling was performed by Roy Wade and Buddy Ragsdale, EL, WES. Analysis of the samples was performed by the U.S. Army Engineer Division, Southwest. The report was written by Charlie B. Whitten, S. Paul Miller, and Nancy A. Derryberry, EGB, EEGD, GL and Roy Wade, Environmental Engineering Division, EL. Direct supervision was provided by Joe L. Gatz and Robert J. Larson, Chief and Acting Chief, respectively, EGB. The project was conducted under the general supervision of Dr. A.G. Franklin, Chief, EEGD, and Dr. W.F. Marcuson III, Chief, GL.

At the time of publication of this report, the Director of WES was Dr. Robert W. Whalin and the Commander was COL Leonard G. Hassell, EN.

## EXECUTIVE SUMMARY

### Introduction

In 1986 the U.S. Environmental Protection Agency (EPA) issued a Hazardous Waste Management Permit (MD3-21002 1355) to Aberdeen Proving Ground (APG). This permit required a Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) of sites in the Aberdeen Area (AA) of APG. The RFA was completed and a draft report, which included the Aberdeen Area Fire Training Area (AFTA) (Derryberry, et al October 1990), was submitted to EPA by APG. The report recommended further investigation of the AFTA. This study was conducted as a result of the RFA recommendation. The study included three soil borings, the installation of twelve groundwater monitor wells, three rounds of groundwater sampling and analyses of chemical and groundwater flow data. The investigation reported herein was completed in 1990 and this report, in draft form, was reviewed by the APG and the EPA, Region III. Subsequent and ongoing field investigations have, and will provide, additional data about the AFTA and will influence conclusions presented in this report. Subsequent studies include an August, 1991 groundwater sampling round and current (1992) field investigations in the AFTA and nearby western AA-APG boundary. When reports on these studies become available, they should be consulted in order to obtain the most accurate understanding of the conditions existing at the AFTA.

### Study Area Location

APG, located on the northeastern shore of Chesapeake Bay, is approximately 15 miles northeast of Baltimore, Maryland. APG occupies 38,400 acres (approximately 60 sq miles<sup>1</sup>) of Harford County and is divided into the Edgewood Area (EA-APG) and Aberdeen Area (AA-APG). The AFTA is near Phillips Army Airfield in the AA-APG.

### Regional Setting and Geology

APG is in the Coastal Plain Physiographic Province. This province is generally characterized by low lying, gently rolling terrain. Some areas surrounding Chesapeake Bay are nearly level while

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<sup>1</sup>A table of factors for converting non-SI units of measurement to SI (metric) is presented on page 11.

others have been dissected, making the local terrain rolling to moderately hilly.

APG is on the Chesapeake Bay in the northwestern part of Harford County. Due to the proximity of two large bodies of water, the Chesapeake Bay and Atlantic Ocean, the climate tends to be moderate as compared to inland areas. AA-APG is bounded by water on 3 sides, the Chesapeake Bay to the east, Swan Creek to the northeast, and the Bush River to the west and south. The Bush River enters the Chesapeake Bay at the southern tip of AA-APG. AA-APG is drained by eight rivers and streams. Surface waters on AA-APG tend to be shallow and sluggish with tidal estuaries at the mouths of the streams and rivers. Several of the streams on AA-APG are broad swampy areas rather than narrow well defined channels.

Coastal Plain sediments in Harford County consist of three major units, the Potomac Group, the Talbot Formation and Recent (Holocene) sediments. The Lower Cretaceous sediments of the Potomac Group, which is comprised of the Patuxent, Arundel and Patapsco formations in Harford County, unconformably overlie the Precambrian basement rock.

#### History of the AFTA

The AFTA was a housing area for troops during World War II. The buildings were removed in the late 1950's or early 1960's. Partial building foundations are still in the area. Fire training exercises started at this site in the early 1960's with exercises 3 to 4 times a year. The number of exercises increased to an average of once a week. Exercises consisted of filling training pits with water and fuel, then igniting the pit for the trainees to extinguish. The training pits were made by building a 25 to 30 foot diameter, circular soil berm 1 to 2 foot high, on the ground surface. Fire training exercises at the AFTA were stopped in March 1989.

#### Assessment

During the RFA, a soil gas survey by the Baltimore District Corps of Engineers was used to help define the extent of volatile organic compound (VOC) contamination at the AFTA. Deep soil borings and borings for monitor wells drilled by the WES in 1989 for this study were used to define the site geology. Water level data from the groundwater monitor wells installed by WES in 1989 were used to define shallow aquifer gradients. Sampling and analysis of groundwater, surface water and soils determined the groundwater and soil contaminants at the AFTA. Regulations, permissible contaminant levels, toxic and acute exposure limits and other aspects cited in this report represent

those pending at the time of the study. Those same limits and levels may not be current or accurate at the time of report publication.

### Findings

The water table aquifer at the AFTA is the Talbot Formation. Underlying the sands and gravels of the Talbot Formation are the clays of the Arundel Formation. Groundwater flow in the water table aquifer is to the south year round.

Analyses of groundwater from the eleven monitor wells and two supply wells (wells 1040 and 1041) indicate the AFTA is contributing chemical contaminants to the upper aquifer, which is at a depth of approximately 30 feet below ground surface. VOCs were the only contaminants found in the groundwater that consistently exceeded established maximum contaminant levels (MCLs). VOCs exceeding an established MCL include tetrachloroethane, trichloroethane, 1,1-dichloroethene, and 1,1-dichloroethane. Cadmium, lead and nickel exceeded established MCL values in at least 1 well in the 3 sample rounds. Cadmium was detected in only one sample from a monitor well up-gradient of the AFTA. Lead was detected in 2 monitor wells, 1 time in each well, and twice in standby supply well 1041, which is located cross-gradient from the AFTA. Nickel exceeded the MCL value 1 time but was commonly found in most wells at the AFTA. Iron and manganese exceeded Secondary MCL values.

Surface water samples from the bermed pits and the separation pond contained cadmium, lead, methylene chloride, and benzene that exceeded MCL guidelines. The surface water samples also contained chromium, copper, lead, silver and zinc that exceeded the fresh and/or marine water quality criteria.

Surface soil samples show the following parameters exceeded guidelines at one or more of the training areas at the AFTA:

Cadmium	Silver
Lead	DDT
Zinc	PCB-1248
Mercury	Tetrachloroethane.

VOCs, pesticides, and fuels at levels below guidelines were detected.

### Recommendations

Soil sampling to define the horizontal and vertical extent of soil contamination at the AFTA should be conducted.

Install monitor wells to define the horizontal and vertical extent of the groundwater contamination from the AFTA.

Monitor wells should be installed between the AFTA and the Harford County production wells along the western AA-APG boundary so chemical characteristics of the groundwater between the AFTA and Harford County wells can be monitored.

Water levels in the monitor wells at the AFTA and any adjacent areas should be measured quarterly to monitor seasonal changes in groundwater gradients.

The AFTA monitor wells, to include wells 1040 and 1041, and the monitor wells between the Harford county production wells and the AFTA should be sampled and analyses conducted for:

- Target Compound List (TCL)
- Target Analyte List (TAL)
- general water quality parameters
- oil and grease
- total recoverable hydrocarbons

Three quarterly rounds of chemical data should be collected.

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# Conversion Factors, Non-SI to SI (Metric)

## Units of Measurement

Non-SI units of measurements used in this report can be converted to SI (metric) units as follows:

<u>Multiply</u>	<u>by</u>	<u>To Obtain</u>
acres	4,046.873	square metres
feet	0.3048	metres
feet per mile	0.1893935	metres per kilometre
°Fahrenheit minus 32	0.5555556	°Celcius
gallons	3.7853	litres
miles (US statute)	1.609347	kilometres

## PART I: INTRODUCTION

### Background

In 1986, the U.S Environmental Protection Agency (EPA) issued a Hazardous Waste Management Permit (MD3 21002 1355) to Aberdeen Proving Ground (APG), Maryland. As required by the permit, APG submitted a scope of work to EPA, Region III on October 6, 1987. This study is follow on work to define hydrogeology and extent of contamination at the Aberdeen Fire Training Area (AFTA), Aberdeen Area-Aberdeen Proving Ground (AA-APG), Maryland.

### Scope

The objective of this study is to provide a framework for characterization of any contaminant plume that may exist or other release at the AFTA.

### Study Area Location

The AFTA is located within the restricted area of AA-APG (Figure 1). The site, which covers approximately 2 acres, is just north and across Bush River Road from Phillips Army Airfield (Figure 2 and Appendix A). The AFTA is inside the fenced 44 acre site leased to the State of Maryland for a fire training facility (Figure 3).

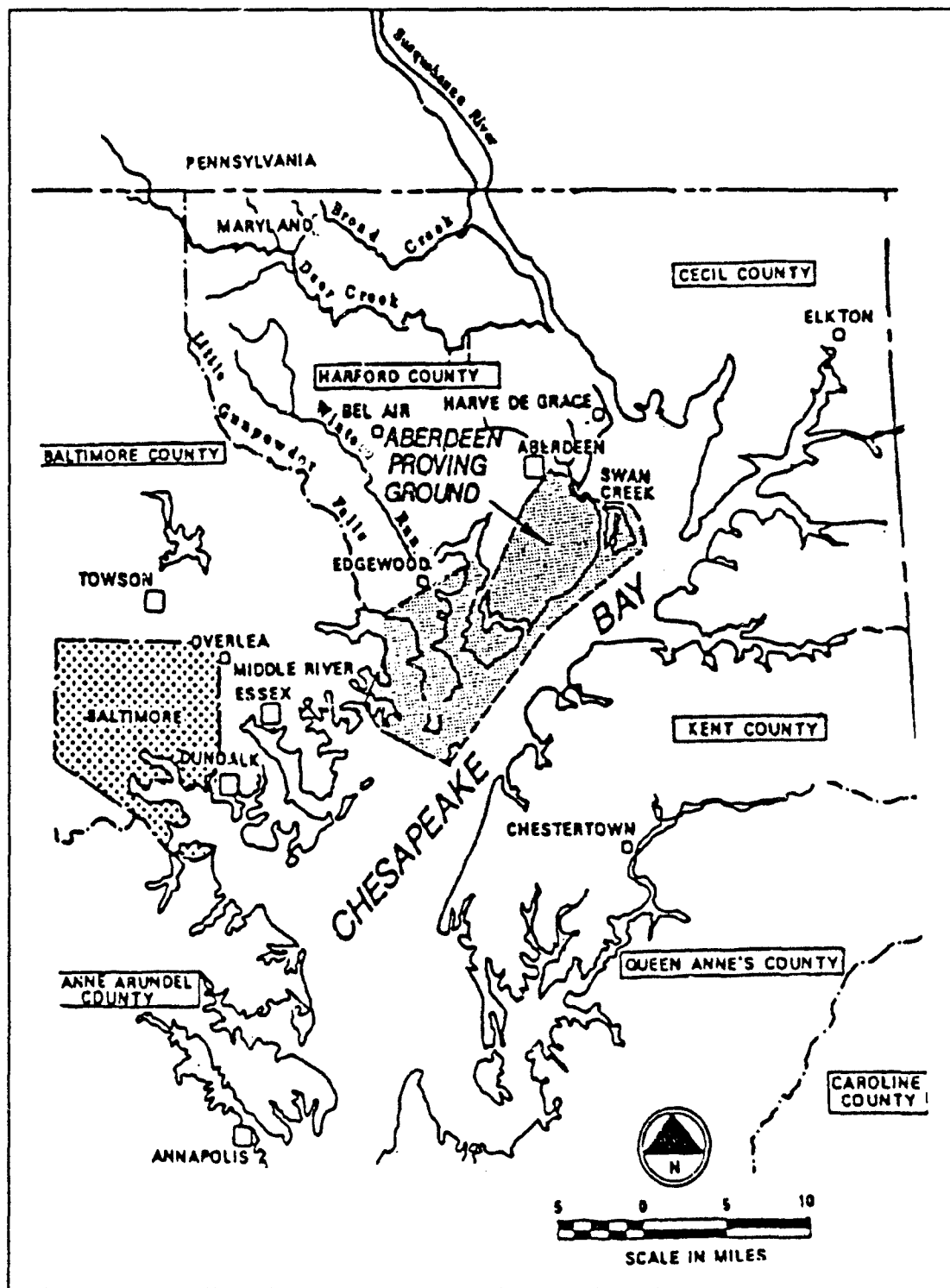


Figure 1. Location of Aberdeen Proving Ground, Maryland.

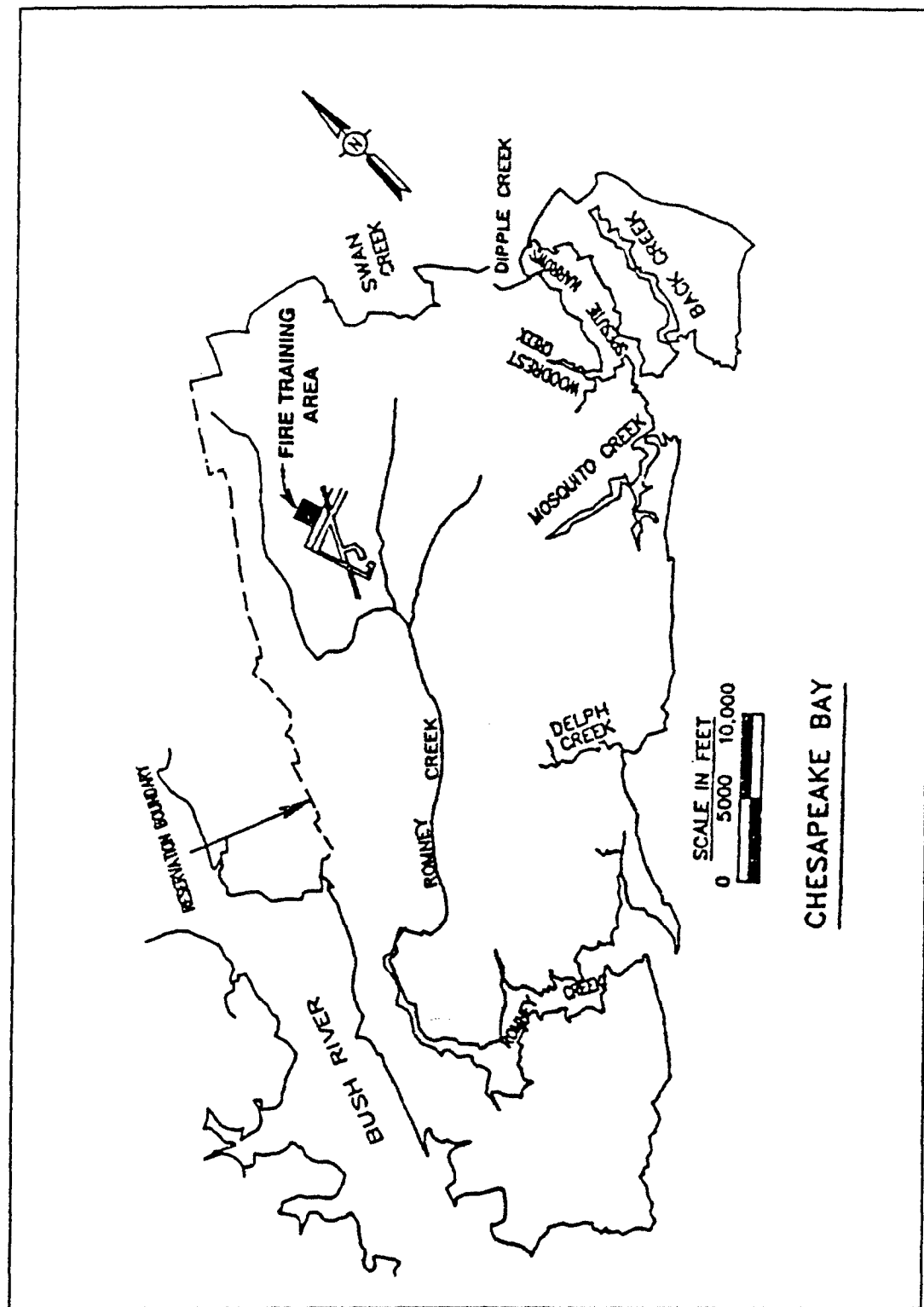


Figure 2. Location of AFTA on Aberdeen Proving Ground, Maryland.

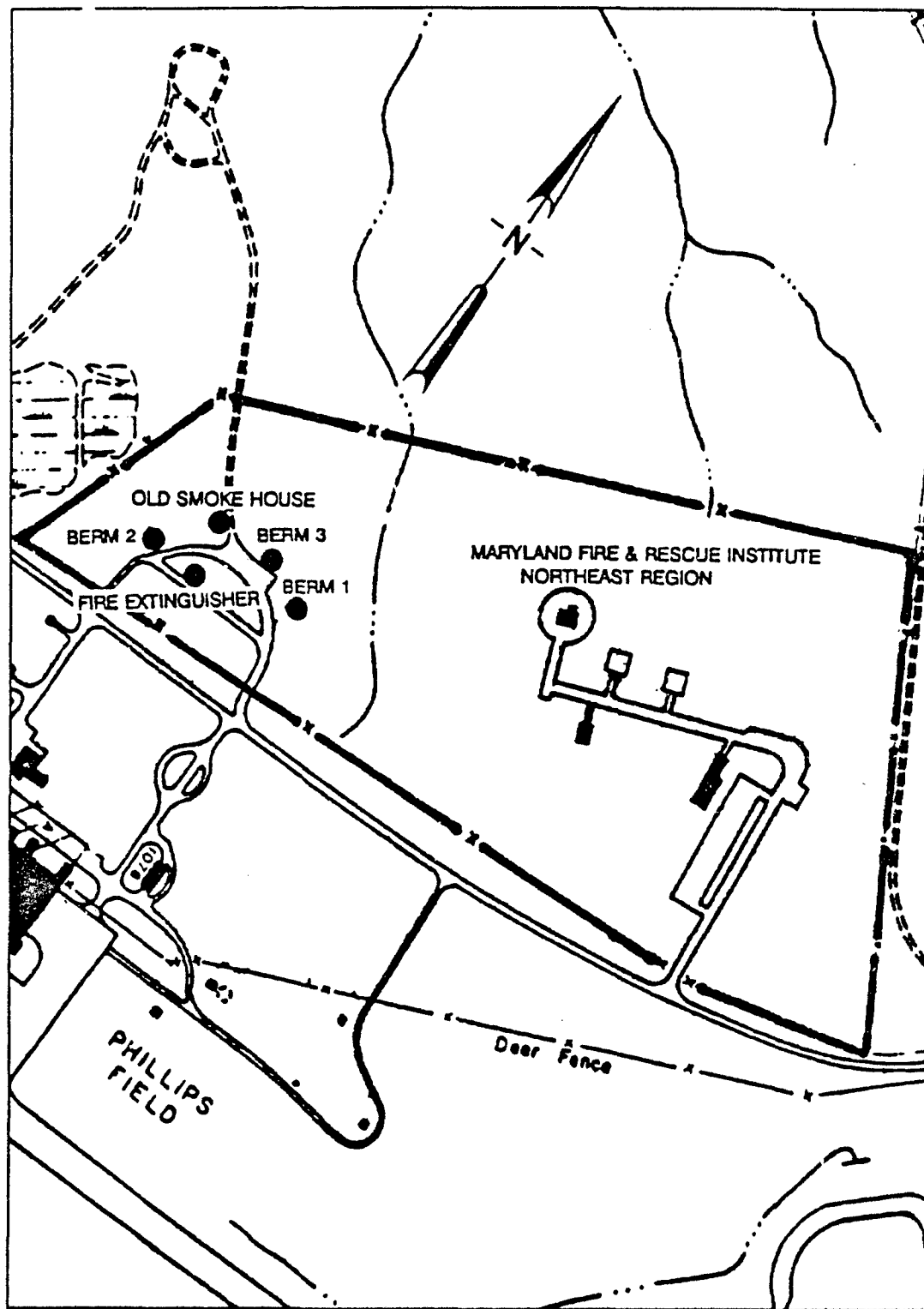


Figure 3. Training areas at the AFTA.

## PART II: HISTORY OF USE

The AFTA was a housing area for troops during World War II. The buildings were removed in the late 1950's or early 1960's. Partial building foundations remain in the area.

Fire training exercises started at this site in the early 1960's with exercises 3 to 4 times a year. The number of exercises increased to an average of once a week. Exercises consisted of filling the training pits with water and fuel, then igniting the pit for the trainees to extinguish. After an exercise, any remaining fuel was allowed to burn off. Approximately 1500 gallons of fuel were burned for one day of training (Derryberry, et al, 1990). On December 1, 1988, a Memorandum for Record from the Environmental Management Division was sent to the Fire Chief stating that there were to be no more releases to the environment due to fire training practices. As of March 1989, training practices were stopped until further notice (Derryberry, et al, 1990).

Training areas (Figure 3 and Appendix B) within the AFTA include :

- Berm 1 which contains an old jet aircraft (F-89 Scorpion);
- Berm 2 which contains a broken flange set-up for simulating  
fire on a loading dock;
- Berm 3 which contains an old military tank;
- Old Smoke House;
- Fire Extinguisher Area.

Fires of oil and old tires were used in the past to generate smoke for training in the Old Smoke House. The Old Smoke House has not been used in the last 18 years since Chief Jones has been with the Fire Department. Recently a trailer, set up with a special non-toxic smoke generator, has been used for training purposes (Derryberry, et al, 1990).

North of the Old Smoke House, toward the back of the area, several old aircraft and parts of aircraft have been abandoned. Historical aerial photographs show this area had been used as a storage area for old aircraft since the 1940's.

A 3000 gallon underground storage tank (UST) was located approximately 50 feet south of the Old Smoke House. The UST was removed in 1990. Fuels reportedly stored in the UST included diesel fuel, gasoline, kerosene, and jet engine fuels (JP4 and JP5). The fuels, which did not meet standards for use in vehicles due to moisture content or other reasons, were placed in the UST for use in fire training activities.



Forty-four acres surrounding the AFTA has been leased by the State of Maryland for a Fire Training Center. A permitted fire training facility has been built. The AFTA is in the southwest corner of the 44 acre site.

### PART III: REGIONAL SETTING AND GEOLOGY

#### Regional Setting

Maryland extends across five physiographic provinces, the Appalachian Plateau, Valley and Ridge, Blue Ridge, Piedmont Plateau, and Coastal Plain provinces (Figure 4). These provinces parallel the Atlantic shore in belts of varying width from New England almost to the Gulf of Mexico (Vokes, 1957).

APG is in the Coastal Plain Physiographic Province, which is generally characterized by a low lying, gently rolling terrain (Figure 4). Some areas surrounding Chesapeake Bay are nearly level while others have been dissected, making the local terrain rolling to moderately hilly (Dames and Moore, 1972).

#### Regional Geology

Coastal Plain sediments are marine and non-marine sediments that were deposited on the eastern continuation of the Piedmont Crystalline Complex. The transgressive and regressive seas and local streams deposited layers of clay, silt, sand and gravel. These interbedded layers form a wedge that begins at the Fall Line and thickens to the southeast (Figure 5). The Fall Line is the boundary between the metamorphic rocks of the Piedmont Plateau and the sedimentary units of the Atlantic Coastal Plain. The Fall Line lies to the northwest of APG and roughly parallels U.S. Route 40.

The Coastal Plain sediments range in age from Cretaceous to Quaternary. Moving in a southeastern direction, a gradual increase in thickness is accompanied by a decrease in dip for successively younger formations. The dip of the formations ranges from an average of 100 feet per mile (ft/mi) near the basement rock to an average of 10 ft/mi for the upper Tertiary formations. Along with the increase in thickness and decrease in dip, the sediments generally become finer to the east (Dames and Moore, 1972).

Variations, laterally and vertically, in lithology and texture are explained by transgressive and regressive seas. Extremes in the fluctuation of sea level at the end of the Cretaceous and the Paleocene along with widespread erosion explain the absence of formations in some areas (Dames and Moore, 1972).

A generalized lithologic description of the Coastal Plain sediments in Harford County, Maryland is shown in Table 1 (Bandoian, C.A. and Wardrop, R.T. , 1985). Coastal Plain sediments

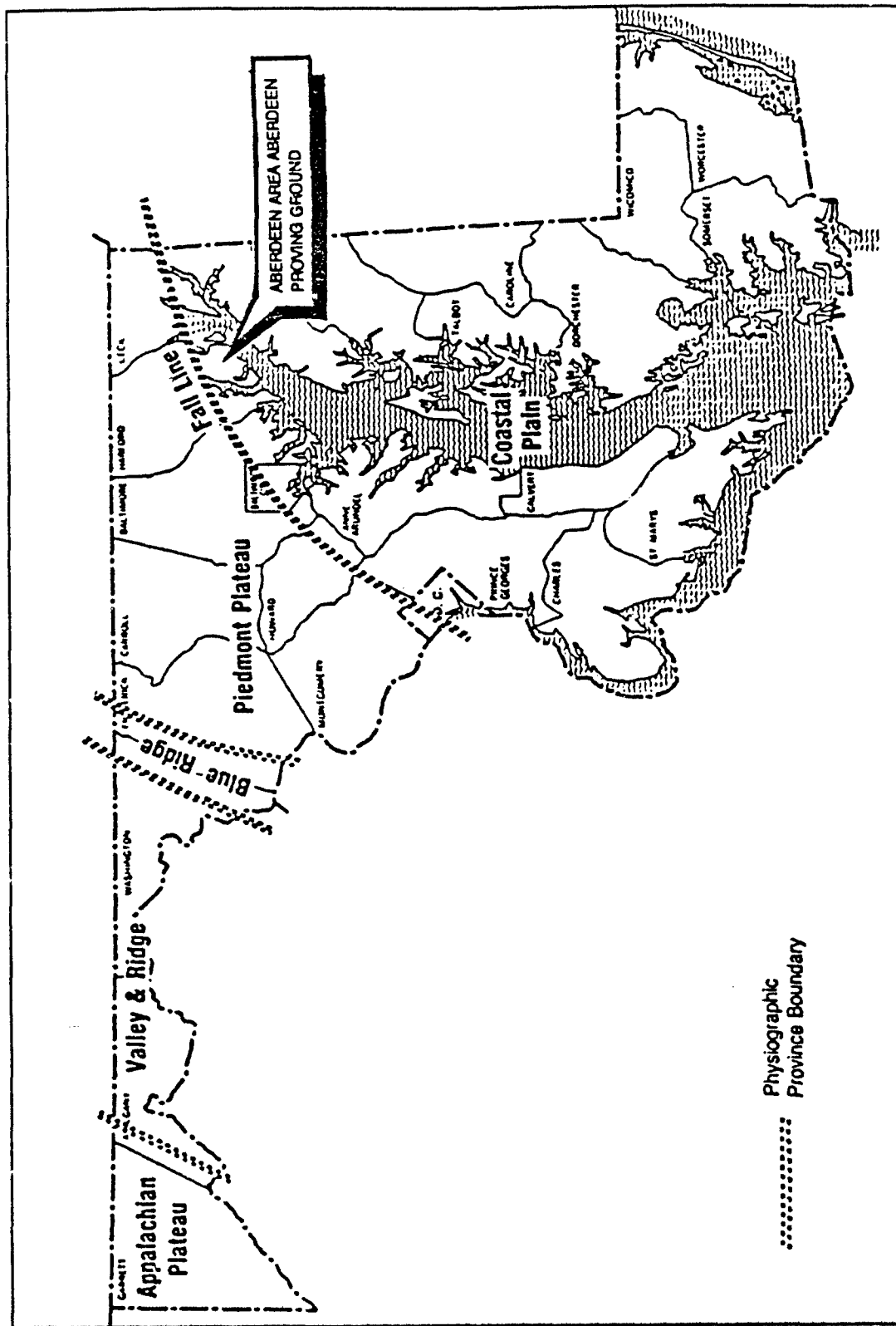
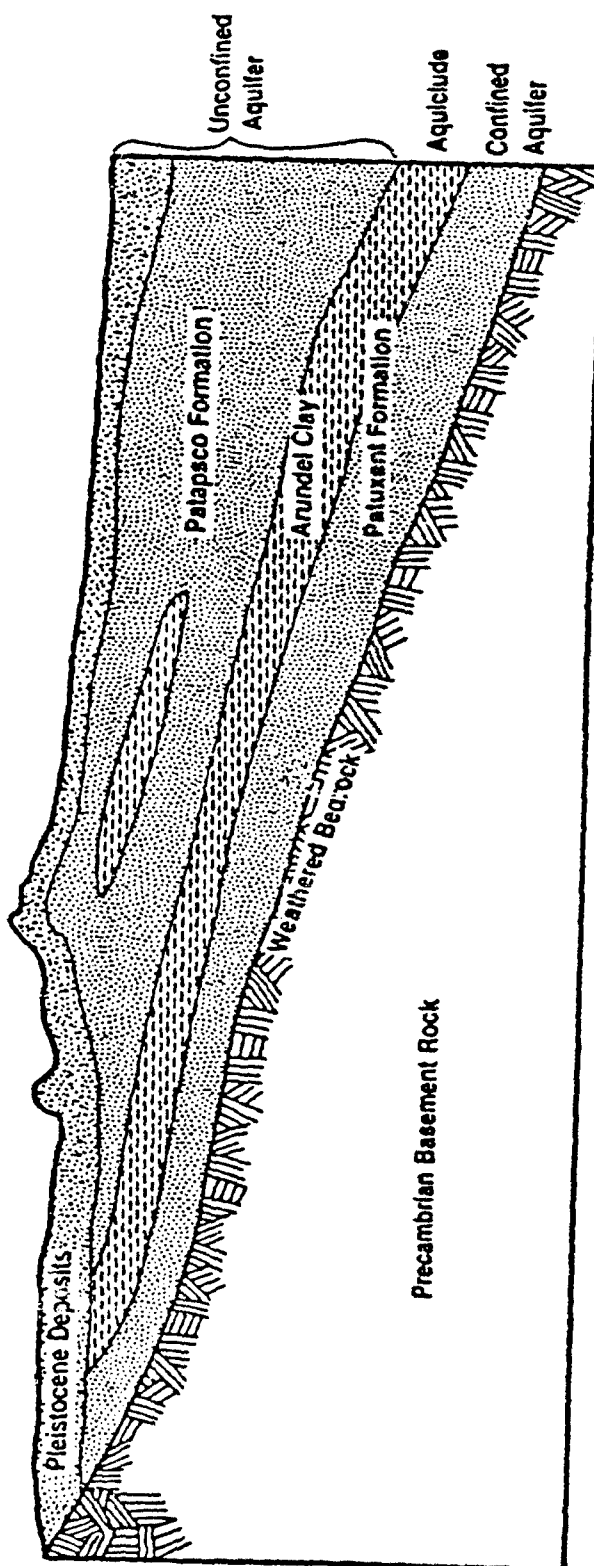


Figure 4. Physiographic Provinces in Maryland.



Not To Scale

Figure 5. Generalized cross-section of the Coastal Plain sediments.

Table 1.  
Generalized lithology of the Coastal Plain sediments (Bandoian and Wardrop, 1985)

SYSTEM	SERIES	GROUP	FORMATION	THICKNESS RANGE (ft)	LITHOLOGY (Generalized)	WATER-BEARING PROPERTIES
QUARTERNARY	HOLOCENE			0 - 30	Clay, silt, sand and gravel	May yield large quantities of water where recharge can be induced from nearby streams
	PLEISTOCENE		Talbot	~ 20 - 30	Fine to medium silty sand with mixtures of fine gravel and lenses of silt and clay	Water table aquifer where composed of coarse grained water-bearing materials as in Aberdeen and Harve de Grace. Yields upto 500 gpm.
CRETACEOUS	LOWER CRETACEOUS	POTOMAC	Patapsco	60 - 90	Fine to medium sand, silt and clay	Thin and of limited areal extent. Yields some water to domestic wells in Harford County.
			Arundel	40 - 90	Silty clay to clayey silt with lenses of organic silty clay and lignite and ironstone nodules	Not a water-bearing formation except where penetrated by a few wells in outcrop area
			Patuxent	80 - 100	Silty fine to medium sand with minor clay lenses	Source of water for numerous domestic and small commercial ground water supplies along U. S. Highway 40. Thickens rapidly toward southeast and becomes an excellent aquifer yielding upto 1,000 gpm
PRECAMBRIAN	GLENARM		Wissahickon (undivided)		Saprolitic - hard silty clay to clayey silt with some sand lenses	Not a water-bearing formation

in Harford County are divided into three major units: (1) the Lower Cretaceous Potomac group, (2) the Quaternary Talbot Formation (Pleistocene), and (3) Holocene (Recent) sediments. The Lower Cretaceous sediments of the Potomac Group unconformably overlie the Precambrian basement rock. The Potomac Group is comprised of the Patuxent, Arundel, and Patapsco formations in Harford County. "Detailed studies of these formations of the Potomac Group show that no consistent upper or lower boundaries of these formations can be established" (Owens, 1969).

#### Patuxent Formation

The Patuxent Formation is the basal unit of the Potomac Group that unconformably overlies the Precambrian basement rock. This formation thickens from the outcrop at the Fall Line to over 2,300 feet beneath Ocean City (Hansen, 1972).

Sand, gravel, silt, and clay strata in the Patuxent Formation were produced by fluvial sedimentation. "The formation consists of a complexly related series of channel and point bar sands and gravels interstratified with flood plain silts and clays" (Hansen, 1972). Little horizontal or vertical continuity is exhibited by this unit due to the rapid changes in lithology. "The lithology of the Patuxent Formation is white or light to orange-brown, moderately sorted, angular sands and subrounded gravels. Gray to orange-brown silts and clays also occur and range from less than 25% to greater than 75% of the total formation" (Hansen, 1972).

These stratum changes allow the Patuxent Formation to be considered a multi-aquifer unit with several water-bearing sands. These water-bearing sands are of varying thicknesses and permeabilities. Stratigraphic units range from irregularly bounded sheets to isolated sand bodies.

#### Arundel Formation

The Arundel Formation overlies the Patuxent Formation. The Arundel Formation is predominantly clay, gray to red-brown in color. Locally small concretionary masses of iron stone are present. The thickness of this formation ranges from 25 feet near the Fall Line to 200 feet downdip (Mildenberger, J. R. and Sgambar, J. P., 1985).

It appears that the Arundel Formations was deposited by a quiet, shallow, fresh-water environment. The massive structure and the presence of lignitic clays "points to deposition in shallow, probably discontinuous backswamp basins maintained by ponded drainage and slow sediment influx" (Glaser, 1969).

The Arundel Formation is not generally considered an aquifer. In the vicinity of Perryman, it is considered to be a confining layer or aquiclude. This confining characteristic permits development of artesian pressures in the underlying Patuxent Formation (Mildenburger and Sgambar, 1985).

### Patapsco Formation

Unconformably overlying the Arundel Formation is the Patapsco Formation. The outcrop of this formation parallels the Fall Line in southeastern Baltimore and Harford Counties. The formation thickens to the southeast; beneath Ocean City it is several thousands of feet thick (Hansen, 1972).

Like the Patuxent, the Patapsco is a multiaquifer unit. This formation is the product of fluvial (riverine) and paludal (swampy) deposition. Channel and point bar sands are relatively thick, irregularly bounded sheets that prove to be good aquifers. Sands associated with the clay strata are discontinuous, isolated sand bodies and are not good aquifers (Hansen, 1972; Mildenburger and Sgambar, 1985).

"Lithologically the Patapsco Formation consists of interbedded variegated (gray, brown, red) silt and clay, and argillaceous, subrounded, fine- to medium-grained quartzose sand with minor amounts of gravel reported. Sand percentages range between 25% and 50%. In general, the Patapsco Formation is finer in texture than the Patuxent Formation" (Hansen, 1972).

### Pleistocene and Recent Deposits

The Talbot Formation of the Pleistocene series and the alluvium, swamp and marsh deposits of Holocene age outcrop on APG (McMaster, B. and et al, 1981). Owens (1969) noted that much of the Talbot Formation in Harford County lies within Aberdeen Proving Grounds, and that much of the area was not available for study due to limited access and possible dangers associated with a military reserve. Owens (1969) estimated the thickness of the Talbot Formation to be between 40 and 60 ft.

The Talbot Formation consists of two lithofacies in Harford County, a lower, thick bedded, gravelly sand facies and an upper, massive, very clayey silt or silty clay facies (Owens, 1969). The gravelly sand facies is overlain by the silty clay facies irrespective of altitude nearly everywhere in the area.

The depositional environment of the Talbot was at one time considered to be marine. However, the depositional environment of the lower gravelly sand facies was reported by Owens (1969) to be fluvial. Owens (1969) noted the gravels were restricted to distinct channels and the extensive trough cross-stratification in both sandy and gravelly beds are typical of channel fill (point-bar) deposits.

Owens (1969) noted two possibilities for the depositional environment of the silty clay facies. The first was overbank deposits. He noted a similarity between the distribution of this silty-clay facies in Harford County and the distribution of fine-grained lithofacies in the Brandywine area that had been described as overbank deposits. This description suggested a degrading stream as a mode

of deposition because of the preservation of the lithofacies at progressively lower elevations (Owens, 1969).

Owens (1969), also, noted as a second possibility the silty-clay facies might possibly be estuarine or marine, as are the deposits described by others at Sparrow Point east of Baltimore. Owens discounted this correlation due to thickness and the depth at which the Sparrow Point clay-silt was found.

Alluvial, swamp, and marsh deposits occur in the reaches of the rivers in the region that have become inundated as a result of a rise in sea level (Dames & Moore, 1972). Composition of the alluvial deposits ranges from clay to gravel, while the swamp and marsh deposits consist of silts, clays, and organic matter (Dames & Moore, 1972). Thus, surficial sediments are heterogeneous and vary considerably horizontally. Typically, gravels are at the base and the silts and clays dominate the upper portions.



## PART IV: SITE SETTING AND GEOLOGY

### Site Setting

APG is located in Harford County on the northwestern shore of the Chesapeake Bay. Due to the proximity of the Chesapeake Bay and the Atlantic Ocean, the climate tends to be moderate as compared to the inland areas (McMaster, et al., 1981). Average temperature is 54.5 °F with an average relative humidity of 73.8%. Precipitation averaged 45.01 inches per year from 1969 through 1990 (Figure 6). The maximum rainfall usually occurs in the summer and the minimum during the winter. Figure 7 shows the average monthly rainfall from January 1969 through December 1990. Precipitation as snowfall averages 12.0 inches (Sisson, 1985). Prevailing winds average 6.8 knots (Sisson, 1985) in a N to NW direction in the winter months and a S to SW direction in the summer months (McMaster, et al., 1981).

APG is bounded on the east, south and west by the Chesapeake Bay and estuaries of Swan Creek and Bush River (Figure 2). Swan Creek enters the Chesapeake Bay at the northeast edge of APG forming approximately 2 miles of the northeastern border of AA-APG. The Bush River enters the Chesapeake Bay at the southern most tip of AA-APG and forms the western border of AA-APG. The Chesapeake Bay forms the eastern and southern border of AA-APG.

APG is drained by eight rivers and streams (Figure 2). Surface waters on APG tend to be shallow and sluggish with tidal estuaries at the mouths of the streams and rivers. This is attributed to the low elevations of the area and the fact that it is bordered by the Chesapeake Bay (McMaster, et al., 1981). The highly developed northeastern portion of APG is drained by Swan Creek, Dipple Creek, Woodrest Creek and the upper branches of Romney Creek. The southwestern portion of APG, which is primarily undeveloped ranges and test areas, is drained by Mosquito Creek, Delph Creek, the lower half of Romney Creek, and the lower portion of Bush River. Spesutie Island, which is mostly unimproved ranges and test areas, is drained by Back Creek (McMaster, et al., 1981).

### Site Geology

#### Stratigraphy on AA-APG

The Geologic Map of Harford County (Southwick and Owens, 1968) shows the Fall Line located approximately 1 to 1.5 miles northwest of the northwest boundary of APG. Borings that extend to bedrock in the northern portion of APG (Figure 8) show the Precambrian bedrock dips to

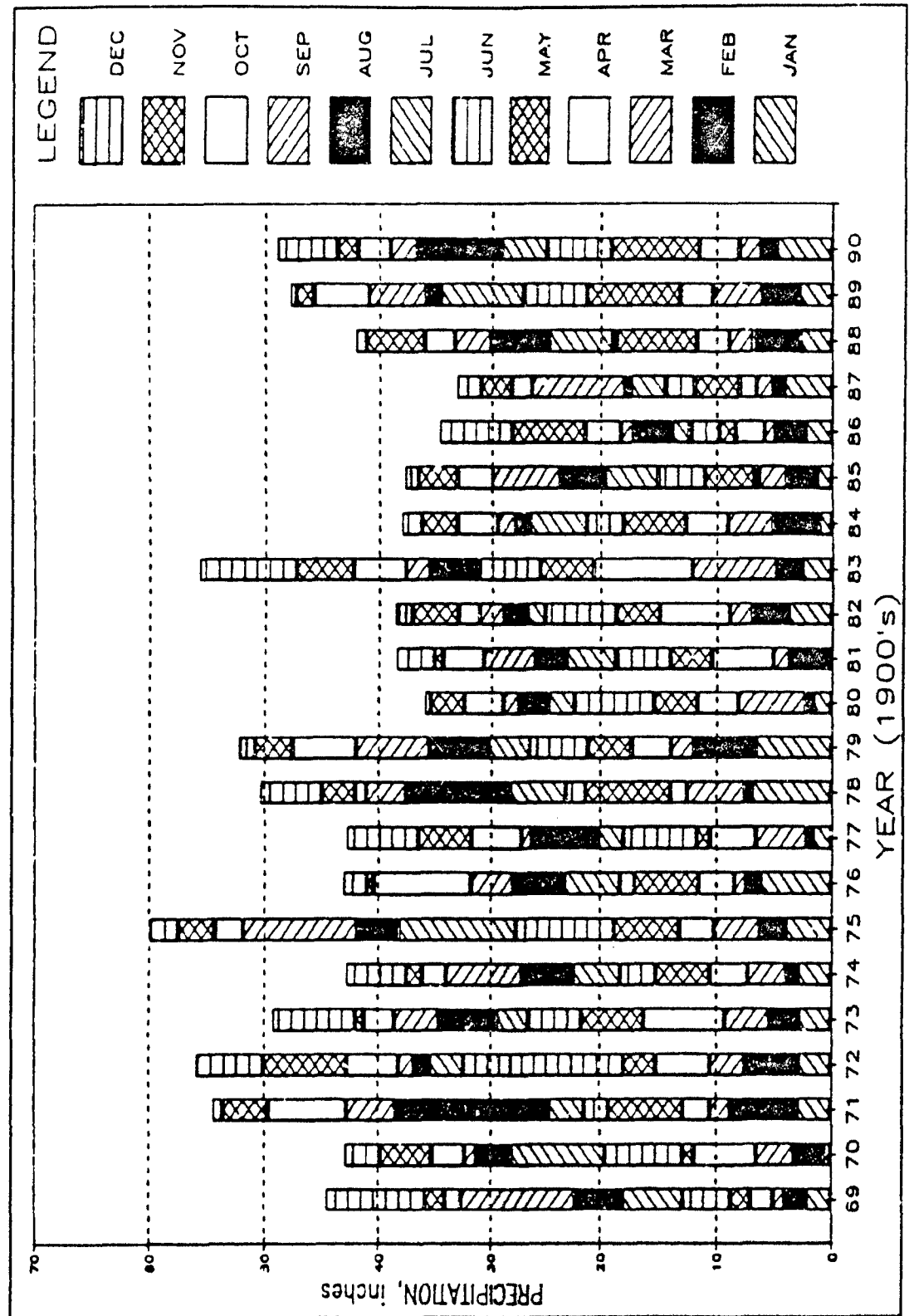


Figure 6. Monthly precipitation at Phillips Army Airfield from 1969 thru 1990.

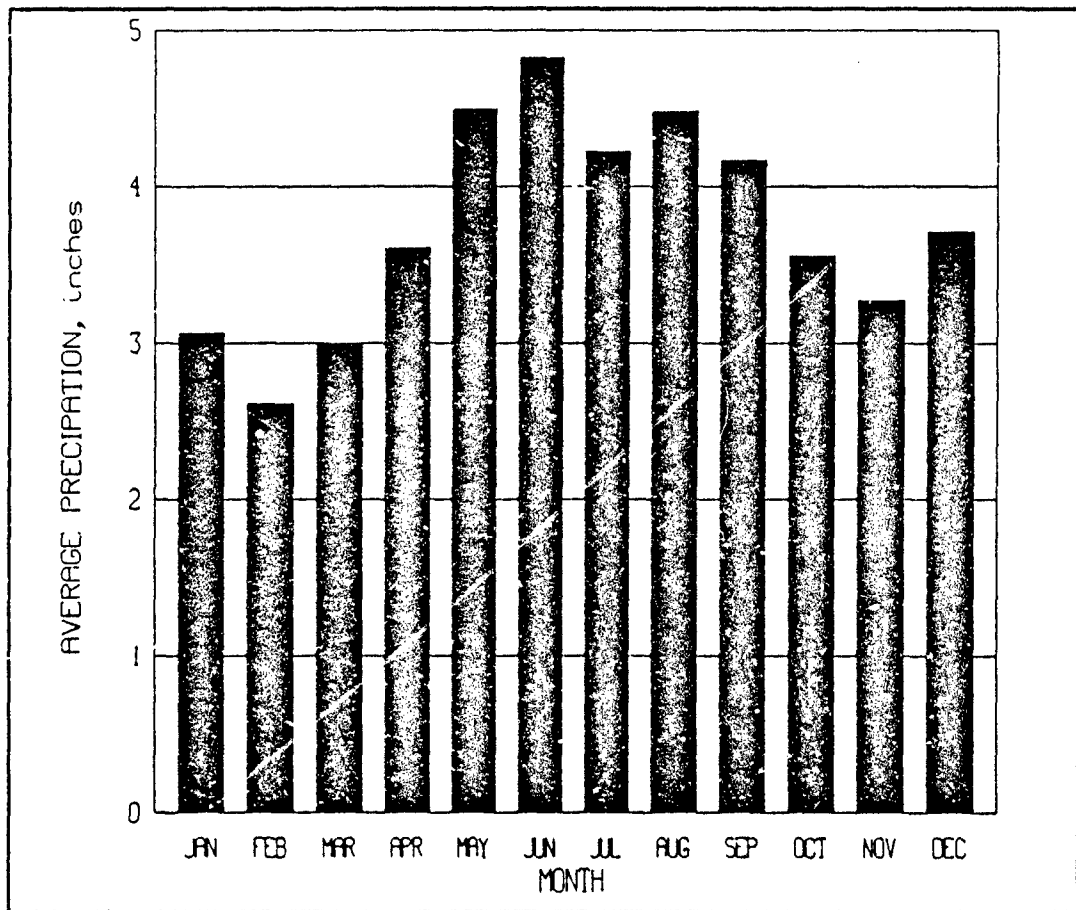


Figure 7. Average monthly precipitation from 1969 through 1990.

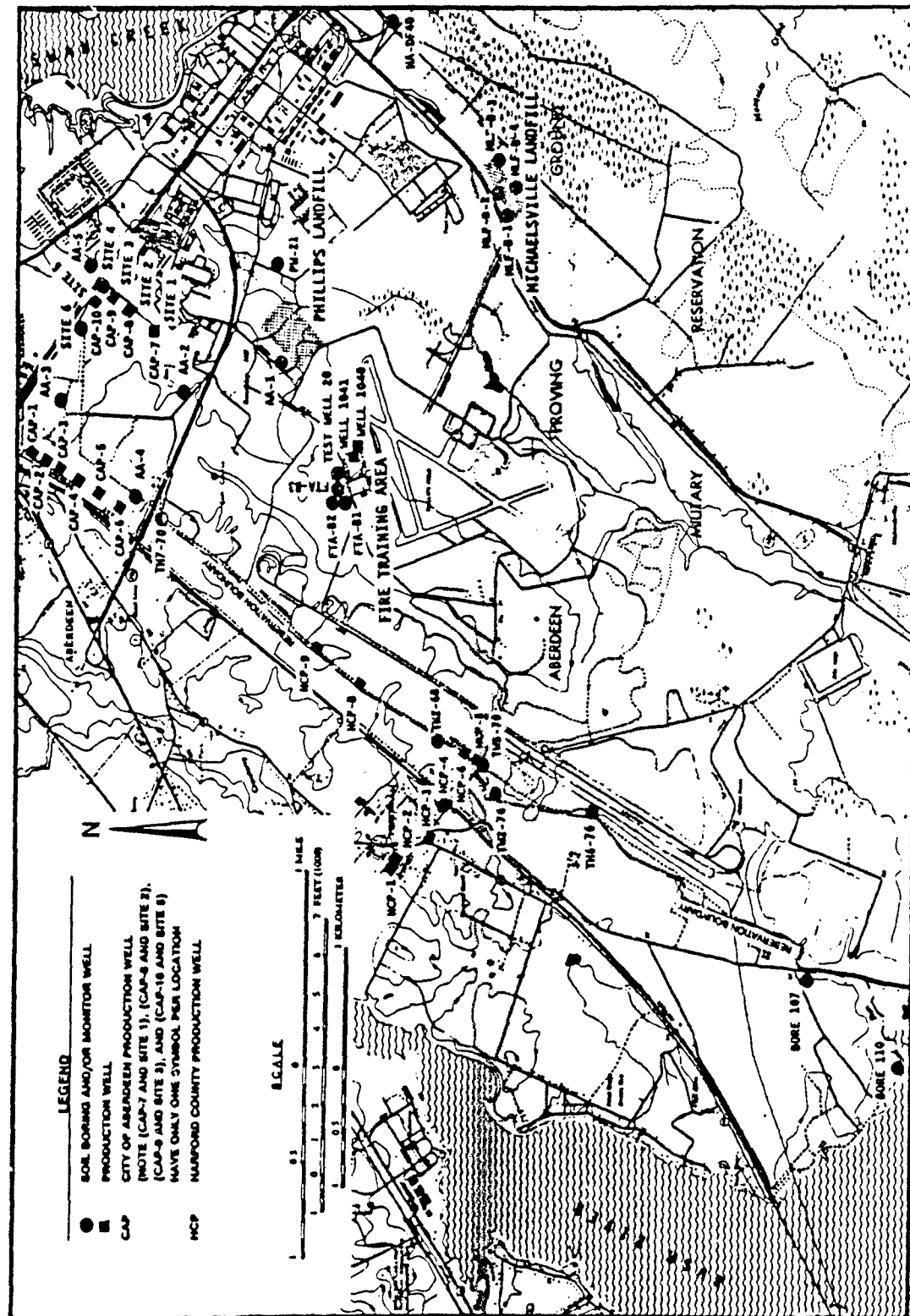


Figure 8. Location of borings and other wells in the vicinity of the AFTA.

Table 2  
Depth to bedrock in the northern portion of AA-APG  
 (see Figure 8 for location of Bore/Well)

BORE/WELL No.	TOP OF BEDROCK *ELEVATION, FT	SOIL THICKNESS, FT
TH7-70	-68	130
Site 6	-113	183
HCP-9	-125	165
TH2-68	-138	185
TW5-70	-168	210
Test Well 20	-180	250
TW2-76	-280	335
TH6-76	-240	280
Bore 107	-326	360
Bore 110	-326	395
HA-DF40	-445	481

\* Elevation relative to mean sea level.

the southeast at approximately 100 feet per mile (Table 2). The thickness of the soils overlying the bedrock increases as the bedrock dips to the southeast. The soil thickness increases from 183 ft at Site 6 to 481 ft at Well HA-DF40, which are approximately 1.5 and 3.8 miles, respectively, from the Fall Line. The soils directly overlying the bedrock are weathered bedrock or saprolite. The saprolite varies from a white to green micaceous clay to a silty fine sand. The thickness of the saprolite ranged from about 13 ft at Site 1 to 95 ft at Bore 107.

The city of Aberdeen installed 6 test wells (Sites 1 thru 6) on APG in 1975-76 (Figure 8). The 6 test wells were located approximately 1.3 to 1.7 miles northeast of the FTA. All 6 test wells were drilled to bedrock or the overlying saprolite. The lithologies, as described on the bore logs, are shown in Table 3. The "yellow clay" ranges from 10 to 14 ft thick while the "sand, gravel and clay" range from 52 to 68.5 ft thick. The bottom 13 to 35 ft of the borings are described as green and white clays with rock at the base. The green and white clays are saprolite. There are 85 to 119 ft of mixed clays between the "sand, gravel and clay" and "green-white clays".

Groundwater monitor wells AA-1 thru AA-5 (see Figure 8) were installed in the northern corner of APG by the Corps of Engineers, Baltimore District, in June and July of 1984. Well AA-1 is on the western edge of Phillips Army Airfield Landfill, approximately 2700 west of the AFTA. Wells AA-2 thru AA-5 are from approximately 1 to 1.8 miles north to northeast of the AFTA. The borings for wells AA-1 thru AA-5 are from 99.3 to 100 ft deep. The lithologies of all 5 of the AA borings are similar. The upper 2 to 8.5 ft are silt with clay and fine sands, the next 37.5 to 67.5 ft are gravelly, silty sands (Table 4). All 5 AA borings were terminated in clay. The borings were drilled from 28 to 56 ft into the clay which varies from a gray silty clay to a clayey silt with scattered lenses of silty-clayey fine sands. The gravelly, silty sands are generally brown, silty, medium to coarse, gravelly sands. The bore logs for wells AA-1 thru -5 show a distinct color change from brown to gray near the contact between the gravelly, silty sands and the clay.

Supply wells 1040 and 1041, located approximately 1000 ft southeast of the AFTA, were installed in 1942. The bore logs for these 2 wells show the upper 8 to 10 feet were clay to sandy-clay, the next 67 to 71 ft are gravelly, silty sands, and a clay was encountered at 79 ft (elevation -23.7 ft) at well 1040 and 77 ft (elevation -18.4 ft) at well 1041. The boring at well 1040 extended 4 ft into the clay while the boring at well 1041 extended 44 ft into the clay.

Test Well 20 was drilled in the vicinity of the AFTA in 1942. The boring was drilled to the top of rock at 250 ft. The upper 5 ft was sand and clay. Gravelly, silty sands with lenses of clay and silt extended from 5 to 73.5 ft. The bore log shows hard red clay from 73.5 to the top of rock at approximately 250 ft.

Table 3  
Lithologies for the City of Aberdeen Test Wells at Sites 1 thru 6 (see Figure 8 for locations).

SITE	YELLOW CLAY		SAND, GRAVEL & CLAY		MIXED CLAYS		GREEN-WHITE CLAYS		BEDROCK	
	Depth	Thickness	Depth	Thickness	Depth	Thickness	Depth	Thickness	Depth	Thickness
1	0 to 12	12	12 to 66	54	66 to 184	118	184 to 203	19	?	?
2	0 to 10	10	10 to 78	68	78 to 184	106	184 to 203	19	?	?
3	0 to 14	14	14 to 72	58	73 to 191	119	191 to 208	17	208	
4	0 to 11	11	11 to 63	52	63 to 174	111	174 to 187	13	187	
5	0 to 13	13	13 to 75	62	75 to 160	85	160 to 195	35	195	
6	0 to 10	10	10 to 71	61	71 to 159	88	159 to 183	24	183	
Depth and Thickness are in feet. Depth is from ground surface.										

Table 4  
Depth and elevation\* of the 2 lithofacies of the Talbot formation on AA-APG (see Figure 8 ).

BORE/ WELL #	SILT (with clay and fine sand)			GRAVELLY, SILTY SANDS (some with interbedded clays)		
	Depth	Elevation	Thickness	Depth	Elevation	Thickness
Site 1	0 to 12.0	70 to 58	12	12.0 to 66.0	58.0 to 4.0	54
Site 2	0 to 10.0	70 to 60	10	10.0 to 78.5	60.0 to -8.5	68.5
Site 3	0 to 14.0	70 to 56	14	14.0 to 72.0	56.0 to -2.0	58
Site 4	0 to 11.0	70 to 59	11	11.0 to 63.0	59.0 to 7.0	52
Site 5	0 to 12.0	70 to 57	13	13.0 to 75.0	57.0 to -5.0	62
Site 6	0 to 10.0	70 to 60	10	10.0 to 71.0	60.0 to -1.0	61
AA-1	0 to 4.5	60.8 to 56.3	4.5	4.5 to 72.0	56.3 to -11.2	67.5
AA-2	0 to 2.0	55.4 to 53.4	2	2.0 to 51.5	53.4 to 3.9	49.5
AA-3	0 to 7.0	73.8 to 66.8	7	7.0 to 62.0	66.8 to 11.8	55
AA-4	0 to 7.0	50.8 to 43.8	7	7.0 to 44.5	43.8 to 6.3	37.5
AA-5	0 to 8.5	70.3 to 61.8	8.5	8.5 to 52.5	61.8 to 17.8	44
Well 1040	0 to 8.0	55.3 to 47.3	8	8.0 to 79.0	47.3 to -23.7	71
Well 1041	0 to 10.0	58.6 to 48.6	10	10.0 to 77.0	48.6 to -18.4	67
Test Well 20	0 to 5.0	70.1 to 65.1	5	5.0 to 73.5	65.1 to -3.4	68.5
MLF-B-1	0 to 10.5	34.5 to 24.0	10.5	10.5 to 38.0	24.0 to -3.5	27.5
MLF-B-2	0 to 8.0	34.6 to 26.6	8	8.0 to 44.0	26.6 to -9.4	36
MLF-B-3	0 to 8.1	30.8 to 22.7	8.1	8.1 to 25.0	22.7 to 5.8	16.9
MLF-B-4	0 to 11.5	29.7 to 18.2	11.5	11.5 to 42.0	18.2 to -12.3	30.5
FTA-B1	0 to 7.5	59.0 to 51.5	7.5	7.5 to 75.0	51.5 to -16.0	67.5
FTA-B2	0 to 11.0	55.5 to 44.5	11	11.0 to 69.0	44.5 to -13.5	58
FTA-B3	0 to 8.0	57.1 to 49.1	8	8.0 to 71.0	49.1 to -13.9	63
Note --- Data for Sites 1 thru 6, Wells 1040 and 1041, and Test Well 20 are from well drillers logs. --- Data for AA, MLF, and FTA bores are from detailed soil boring logs. --- Surface elevation for Sites 1 thru 6 were estimated from USGS topography maps. --- Depth, Elevation and Thickness are in feet. Depth are from ground surface.						

\* Elevations are relative to mean sea level.



The Michaelsville Landfill (MLF) is located approximately 1.5 miles east-southeast of the AFTA. Four deep soil borings, MLF-B-1 thru -4, were drilled to define the lithology at the MLF. Boring MLF-B-3 was drilled through a stiff waxy clay from a depth of 130 ft (elevation -99.2 ft) to 190.4 ft (elevation -159.6 ft). Silty, gravelly sands were encountered from 190.4 ft to the bottom of the hole at 194.5 ft (elevation -163.7 ft). The other 3 soil borings were drilled up to 30 ft into the stiff waxy clay. The 4 borings have similar lithologies above the stiff clay. Listed below are the 5 general lithologies from the ground surface to the top of the waxy clay:

- 1 -- 8 to 11 ft of clayey silt;
- 2 -- 16 to 36 ft of silty, gravelly sands with scattered lenses of clays and silts;
- 3 -- 56 to 69 ft of interbedded clays, silts and fine sands;
- 4 -- 15 to 25 ft of sand and gravel;
- 5 -- 6 to 14 ft of laminated clays, silts and fine sands.

The clayey silt and silty, gravelly sands (1 and 2, respectively) comprise the two lithofacies of the Pleistocene Talbot Formation, as described by Owens (1969). The interbedded clays, silts, fine sands and gravelly sands (3, 4 and 5) comprise the Cretaceous Patapsco Formation. The borings, except MLF-B-3, were terminated in the stiff clays of the Cretaceous Arundel Formation.

Phillips Army Airfield Landfill (PLF) is located approximately 0.7 mile east of the AFTA. The borings at the PLF are from 30 to 60 ft deep, except for boring AA-1, which is 100 ft deep. The soils in the area of the PLF vary from gravelly, silty sands in the upper 72 ft of boring AA-1 to silt and clay in the upper 47 ft of boring PW-21, which is approximately 2500 ft east of boring AA-1. The thickness of the silt and clay lenses in the upper 30 to 60 ft of soil in the area of the PLF is highly variable.

#### AFTA Surface

The area surrounding the training pits is relatively flat and covered with grass. Toward the back of the site the vegetation changes to thick brush and small trees. Surface drainage is predominantly northwest toward a tributary of Romney Creek. Some drainage from the western portion of the site drains to a low marshy area to the west of the site that also feeds into Romney Creek. According to the Federal Emergency Management Agency (FEMA) flood insurance maps, this area lies in Zone C, which is an area of minimal flooding (FEMA, 1983).

Soils in this area were classified by the Soil Conservation Service (SCS) in the Sassafrass Series. This series "consists of deep, well-drained, gently sloping to steep soils dominantly on undulating uplands, and on some short steeper slopes of the Coastal Plain. These soils formed in old marine deposits of sandy sediment containing moderate amounts of silt and clay" (SCS, 1975) and are the most permeable of the 3 surficial soils found in the area (McMaster, et al., 1981).

### Stratigraphy at the AFTA

Three exploratory borings and 12 monitoring wells were drilled as part of the Fire Training Area Hydrogeologic Assessment. A site map showing boring and well locations is presented in Figure 9. A summary of boring and monitor well data are presented in Table 5 and Appendices C, D, E and F. The 3 soil borings, FTA-B1, -B2 and -B3, were drilled to depths of 81.0 ft (elevation -22.1 ft), 122.5 ft (elevation -68.0 ft) and 91.0 ft (elevation -33.9 ft), respectively, and were terminated in a stiff clay. All 3 soil borings can be broken into 3 general zones : an upper silt zone, an intermediate gravelly, silty sand zone and a lower clay zone. The top 7.5 to 11 ft of the 3 borings are a sandy, clayey silt with traces of gravel. The gravelly, silty sands that overlie the lower clay zone are 58 to 67.5 ft thick. None of the 3 borings extended through the stiff clay. The gravelly, silty sands are primarily interbedded lenses of fine to coarse, silty sands with scattered traces of gravel, and silt and clay lenses. The sand, silt and clay lenses are too irregular for confident correlation between borings.

The stiff clay was first encountered at a depth of 75 ft (elevation -16 ft, msl) in boring FTA-B1, 69 ft (elevation -13.5 ft, msl) in boring FTA-B2 and 71 ft (elevation -13.9 ft, msl) in boring FTA-B3. Boring FTA-B2 was drilled 53.5 ft (69 to 122.5 ft) into the clay. The 53.5 ft section of clay in boring FTA-B3 is generally a gray to brown, stiff, plastic, micaceous clay with some scattered thin silty, sandy lenses or stringers. A brittle black clay was noted from 85 to 87 ft (elevation -29.5 to -31.46 ft). Boring FTA-B1 was drilled 6 ft (75 to 81 ft) into a reddish-brown to mottled yellow, stiff, silty clay. Boring FTA-B3 was drilled 20 ft (71 to 91 ft) into a gray mottled with red, stiff, silty clay with lignitized wood chips at 81 ft (elevation -29.3 ft).

The borings for the 12 groundwater monitor wells (FTA-M1 thru FTA-M12) ranged from 25.5 to 37.5 ft deep (see Table 5). The 12 monitor wells were screened approximately 20 to 25 ft into the gravelly, silty sands. The silt ranged from 7 to 11 ft thick and was described as a brown clayey silt. The gravelly, silty sands were generally fine to coarse silty sands with scattered gravel and thin silt and clay lenses. The sands ranged from poorly sorted fine to coarse sands with traces of gravel to well sorted fine to medium grained rounded sands. Organic laminae were present in several of the sand lenses. Lenses of clayey silt ranging from less than an inch up to a few feet thick are scattered throughout the gravelly, silty sands. The thickest silt lense, noted in the gravelly, silty sands, is from a depth of 20 to 25 feet in well FTA-M10. Cross-sections A-A' thru E-E' (Figures 10 thru 15) depict the stratigraphy at the AFTA.

The gravelly, silty sands and the silt unit capping it represent the two lithofacies of the Pleistocene Talbot Formation described by Owens (1969). Both units were present in all 3 soil borings (FTA-B1 thru -B3) and borings for the 12 groundwater monitor wells. The thickness of the

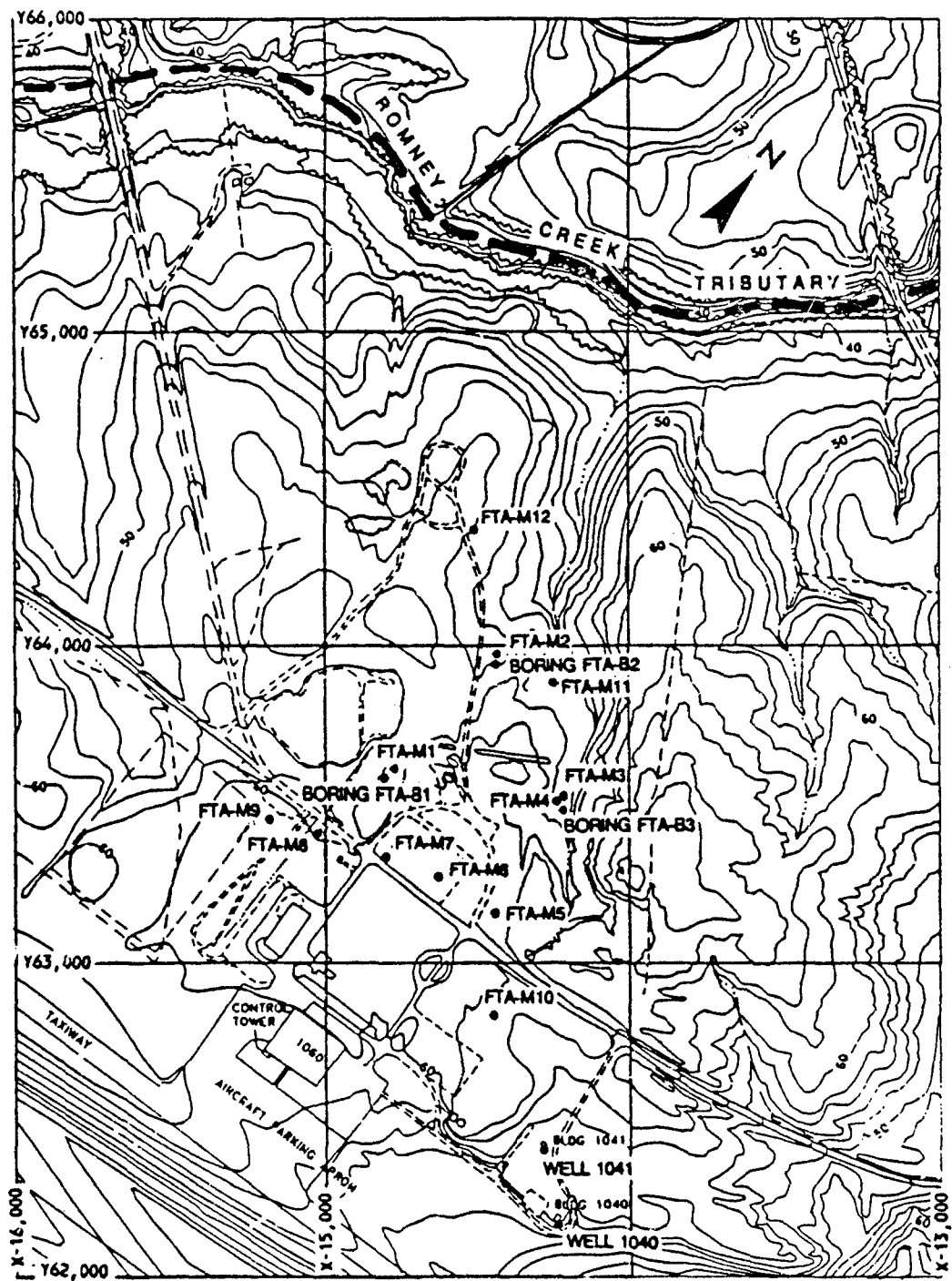


Figure 9. AFTA site map showing the location of soil borings and monitor wells.

Table 5  
Data for wells FTA-M1 through FTA-M12 and soil borings FTA-B1 through FTA-B3

WELL NUMBER	APG SURVEY COORDINATES		*ELEVATION, FT		DEPTH FROM GROUND SURFACE, FT			*ELEVATION OF SCREENED INTERVAL, FT
	X	Y	GROUND SURFACE	TOP OF PVC CASING	BOTTOM OF HOLE	TOP OF SCREEN	BOTTOM OF SCREEN	
FTA-M1	-14776.98	63612.79	58.63	60.42	31.8	19.6	29.6	39.0 - 29.0
FTA-M2	-14443.27	63994.53	54.89	56.49	28.2	17.9	27.9	37.0 - 27.0
FTA-M3	-14213.29	63529.95	57.33	59.26	25.5	15.2	25.2	42.1 - 32.1
FTA-M4	-14230.20	63516.79	57.18	59.57	30.6	20.0	30.0	37.2 - 27.2
FTA-M5	-14444.87	63218.74	61.26	63.13	35.3	24.9	34.9	36.4 - 26.4
FTA-M6	-14632.43	63274.29	61.05	63.05	34.5	24.1	34.1	37.0 - 27.0
FTA-M7	-14808.11	63342.49	59.52	61.05	33.5	22.1	32.1	37.4 - 27.4
FTA-M8	-15018.05	63395.06	59.39	61.97	33.5	23.0	33.0	36.4 - 26.4
FTA-M9	-15196.18	63458.79	59.48	61.35	33.5	22.5	32.5	37.0 - 27.0
FTA-M10	-14446.43	62838.49	63.21	65.11	37.5	27.0	37.0	36.2 - 26.2
FTA-M11	-14250.87	63892.67	54.18	55.92	26.0	15.0	25.0	39.2 - 29.2
FTA-M12	-14513.24	64373.20	55.27	57.76	27.5	16.5	26.5	38.8 - 28.8
BORING								
FTA-B1	-14808.70	63591.24	58.99		81.5	*Elevation bottom of hole	-22.51 ft	
FTA-B2	-14442.10	63958.42	55.54		122.4	*Elevation bottom of hole	-66.86 ft	
FTA-B3	-14214.32	63492.48	57.08		91.0	*Elevation bottom of hole	-33.92 ft	

\* Elevations are relative to mean sea level.

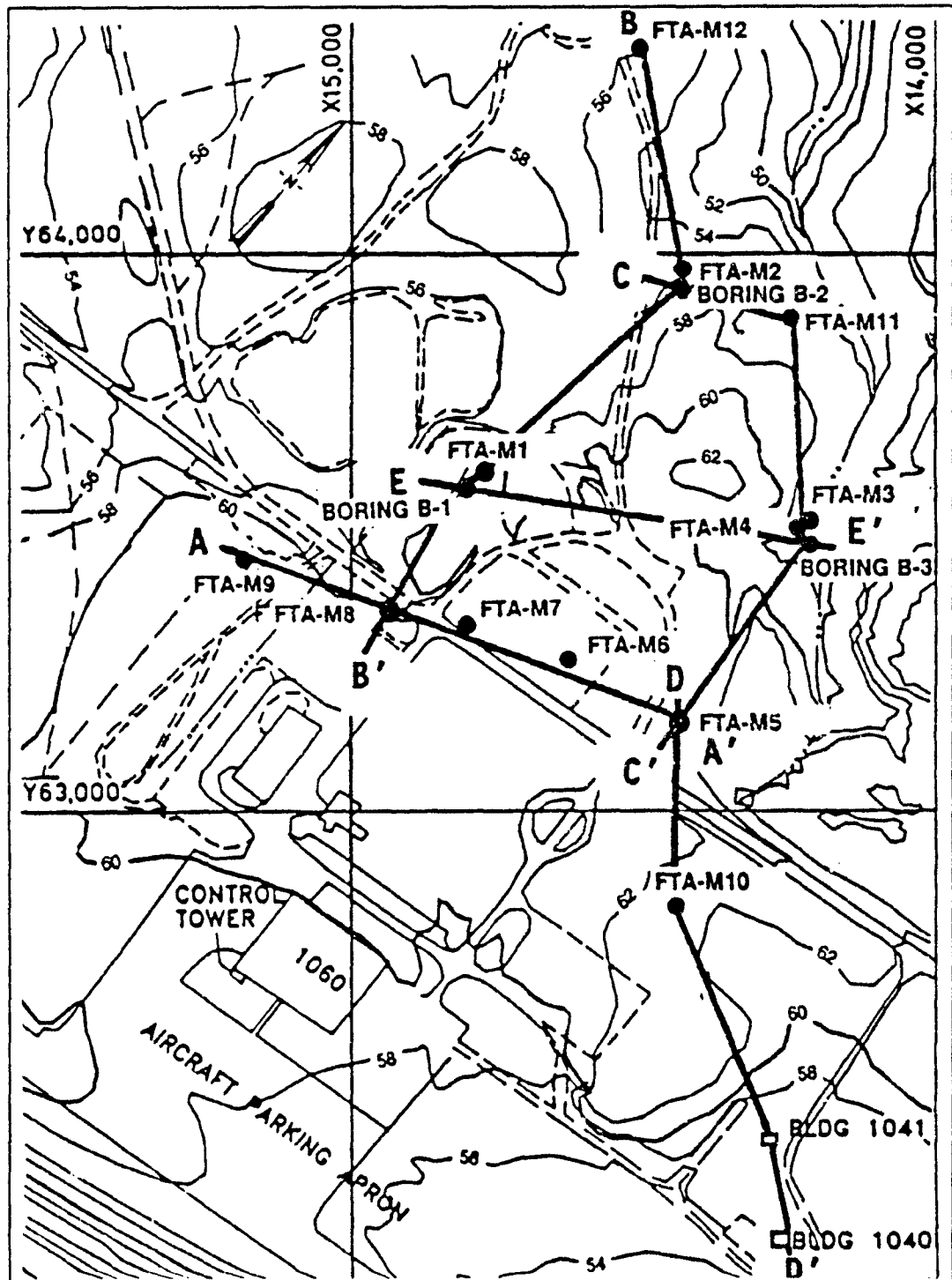


Figure 10. Location of cross-sections A-A' thru E-E' at the AFTA.

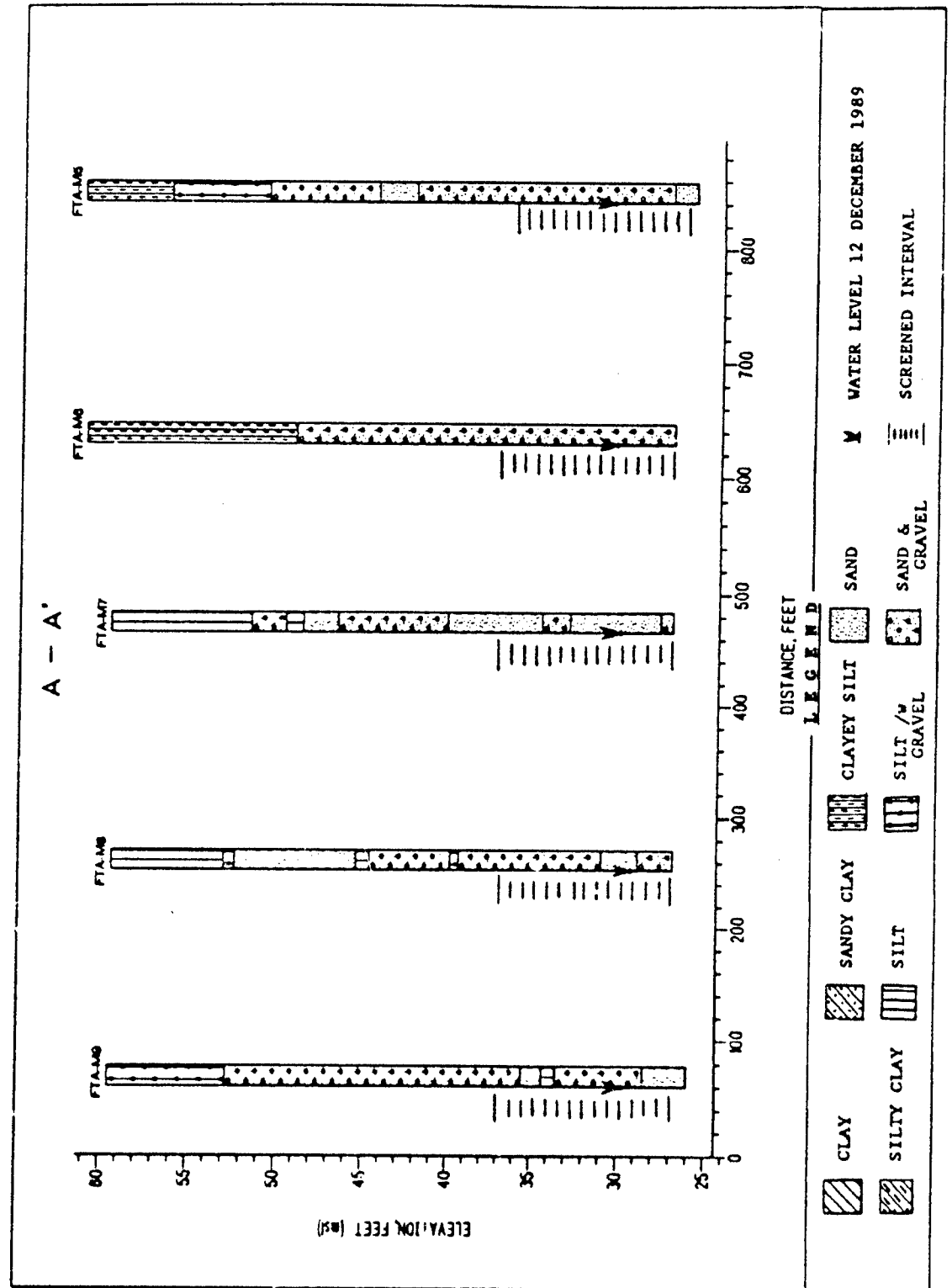


Figure 11. Cross-section A-A' at AFTA.

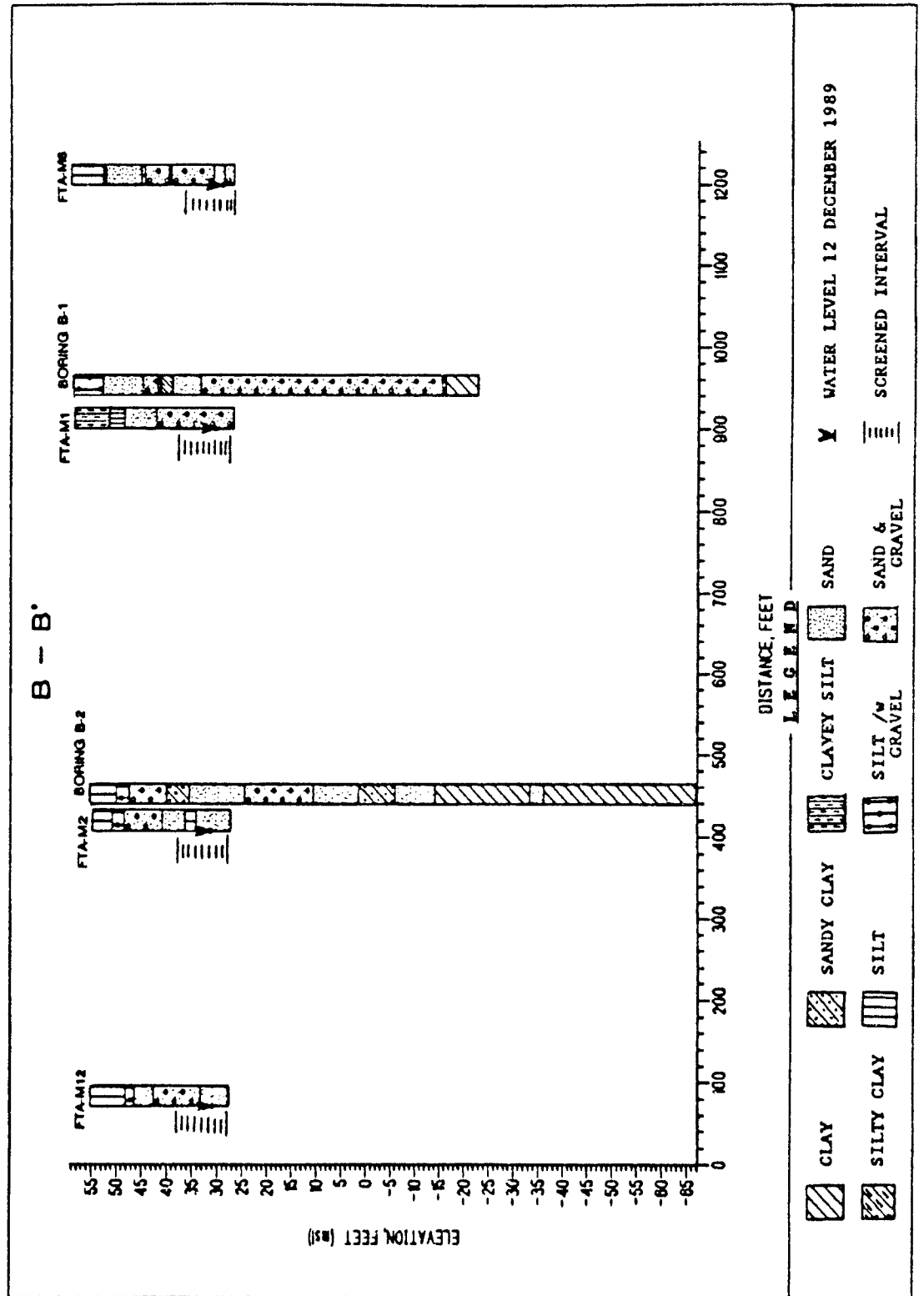


Figure 12. Cross-section B-B' at AFTA.

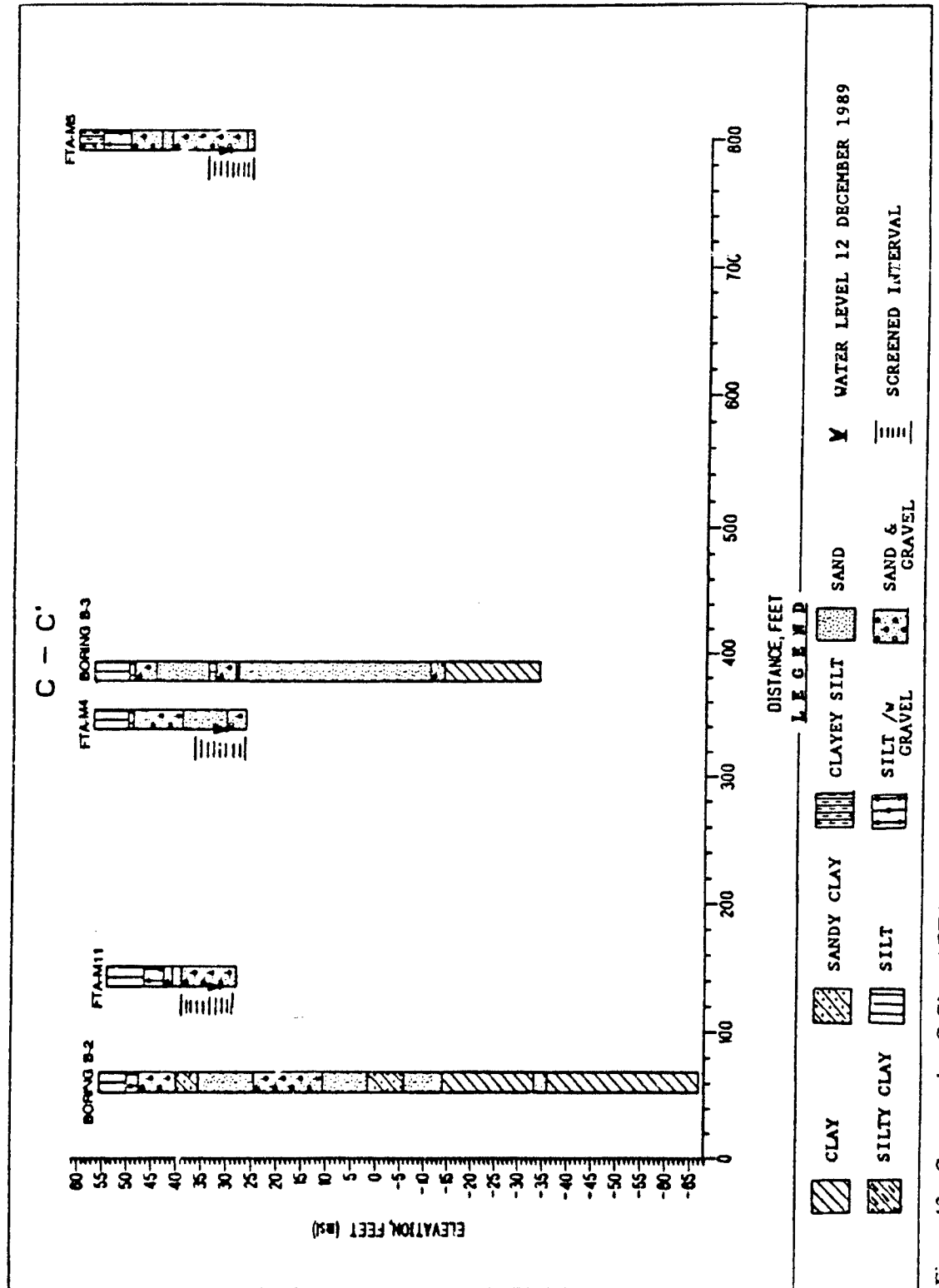


Figure 13. Cross-section C-C' at AFTA.



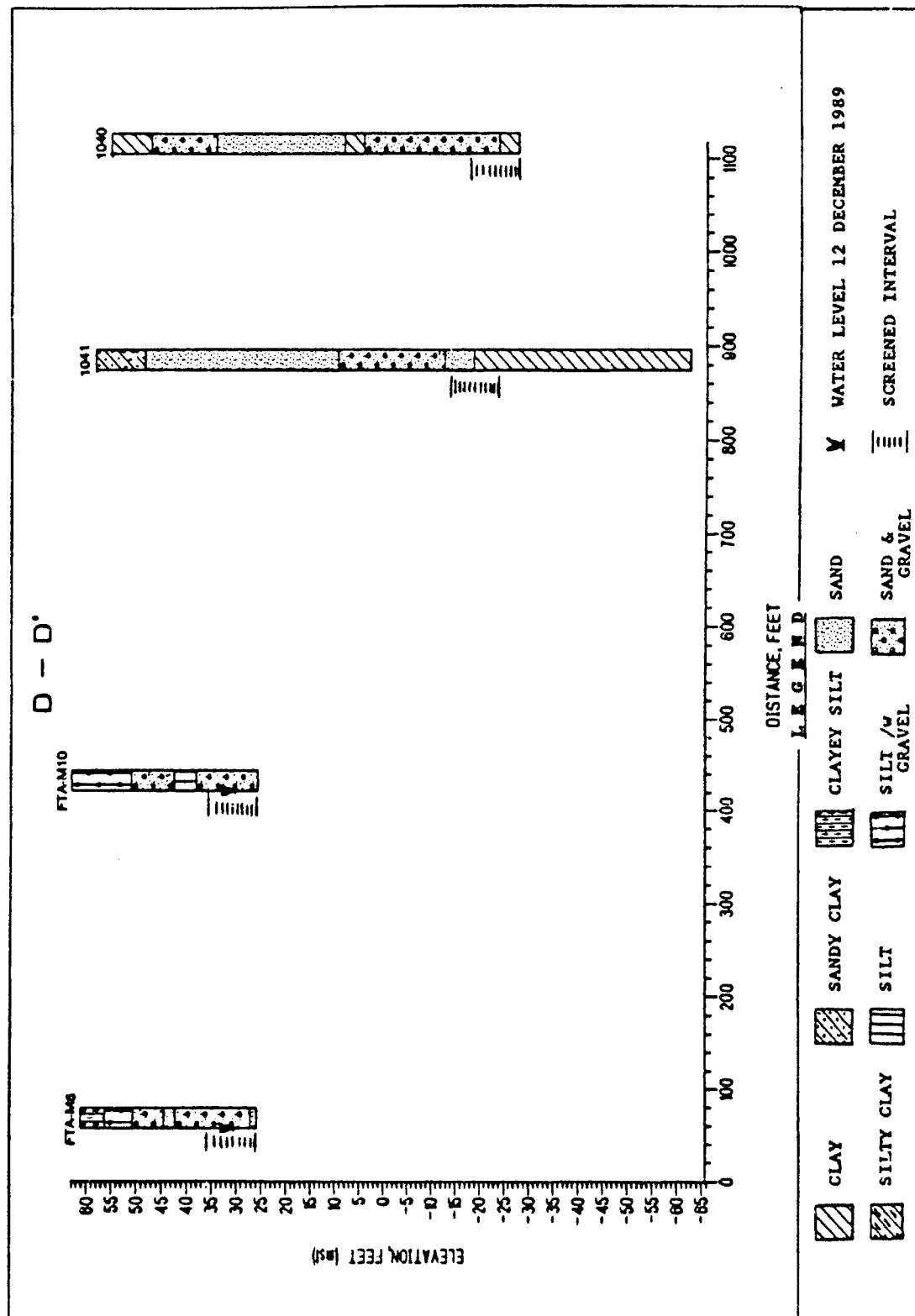


Figure 14. Cross-section D-D' at AFTA.

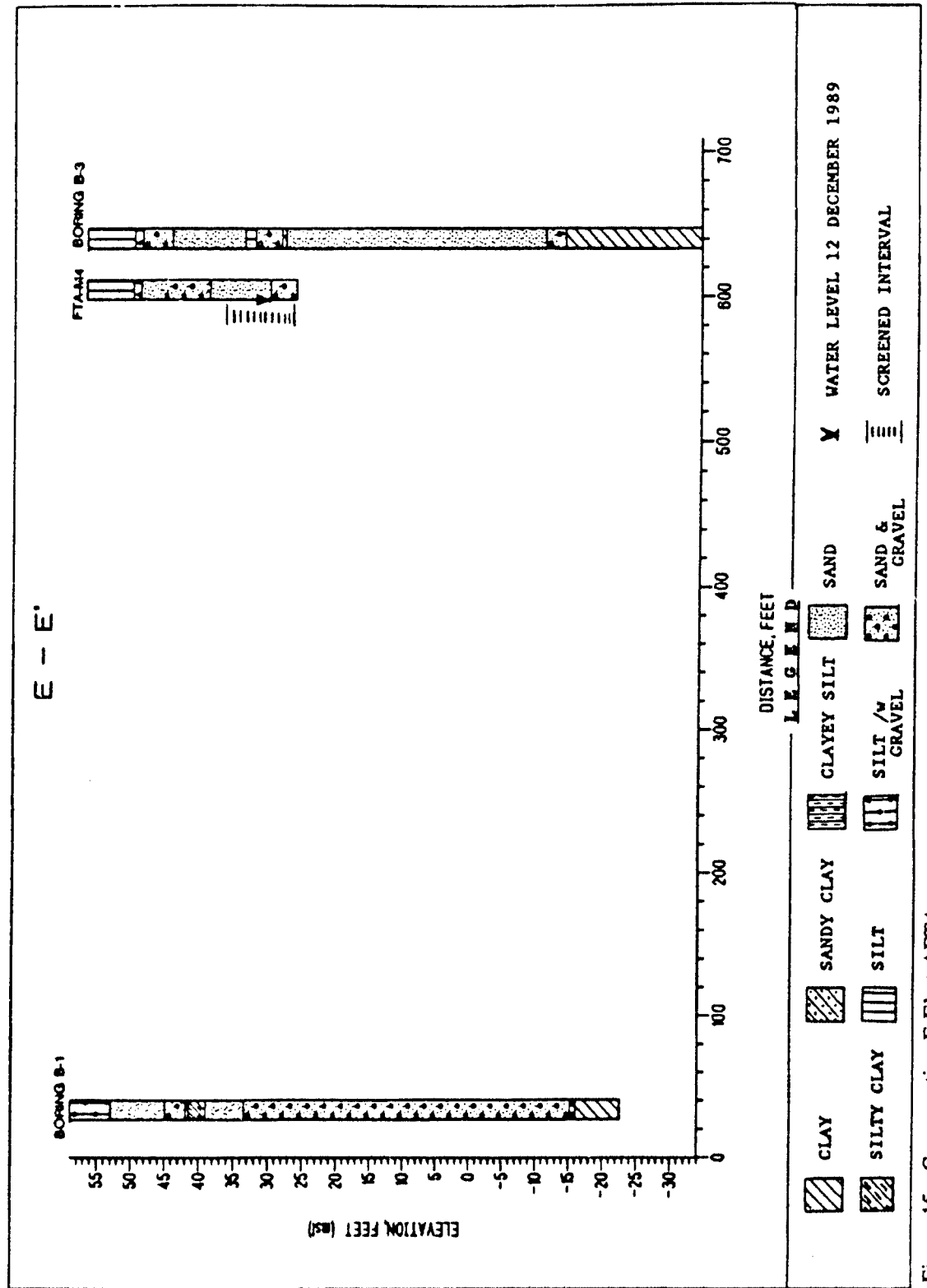


Figure 15. Cross-section E-E' at AFTA.

Talbot ranged from 69 ft at FTA-B2 to 75 ft at FTA-B1. Table 4 shows the thickness of the Talbot ranged from 25 to 79 ft in areas surrounding the AFTA. The thickness of the Talbot decreases away from the Fall Line. The thickness of the Talbot decreases from around 60 to 70 ft in the northern area of APG to approximately 30 ft thick at the MLF, well HA-DF40 and bore 107.

Underlying the gravelly, silty sands of the Talbot Formation are the stiff Cretaceous clays. Soil borings FTA-B1 thru -B3 extended from 6 to 53.5 ft into the clay. None of the soil borings at the AFTA extended through the clay. The elevation of the Talbot-Cretaceous contact ranged from -13.5 ft at FTA-B2 to -16.0 ft at FTA-B1. The Arundel clay is at elevation -99.2 to -190.4 ft at boring MLF-B-3, which is approximately 1.5 miles southeast of the AFTA. As the bedrock dips to the southeast at approximately 100 feet per mile the dip of the successively younger formations decreases. The Pleistocene Talbot Formation overlies the Cretaceous Arundel Formation at the AFTA.

### Drilling and Well Installation Procedures

#### Drilling

A Failing 1500 Holemaster operated by a two-man drill crew was used in drilling, sampling and well installation. A geologist logged the borings and directed the installation of the monitor wells. Each drill site was monitored with a magnetometer and cleared of surface vegetation before drilling equipment was moved on location. The drill crew and geologist were dressed in Level "D" protection.

Prior to, during and after drilling operations, the location, boring annulus, samples and drilling fluid were monitored primarily with an Organic Vapor Analyzer (OVA) and an explosimeter. A methanometer and an HNU meter were used to monitor for methane and volatile organic compounds (VOCs).

Bentonite mud was used while drilling the soil and well borings. All soil borings were plugged with cement grout, from total depth to the surface. Only potable water was used during drilling and well installation.

Prior to moving equipment to a drill site, the equipment was washed with a detergent and thoroughly rinsed. The equipment (rig, drill pipe, casing, drill bits, sampling equipment, etc) was then steam cleaned.

#### Well Installation

Twelve monitor wells were installed at the AFTA site according to EPA's RCRA Ground-Water Monitoring Technical Enforcement Guidance Document (TEGD) (Environmental Protection

Agency, 1986).

The 12 monitor wells are 4-in schedule 40 PVC pipe with 0.010-in slotted 10 ft PVC screens. The bottom of the well screens have a PVC base plate that extends 0.5 ft below the screen. A quartz filter sand of 20-40 sieve size was tremmied from the bottom of the boring to approximately 5 ft above the top of the PVC screens. A 3-5 ft bentonite seal was placed above the filter sand. The well was grouted to within 3 ft of the ground surface using a Type V cement and 3% bentonite mixture. The grout was pumped in from the bottom (top of the bentonite seal) through a 1.5-in tremmie pipe. A bentonite plug was placed in the top 3 ft of the boring. The top of each well has a PVC vented cap. The riser pipes are protected at the surface by 6-in square steel protective casing with locked caps. These protective casings extend 3 ft below ground surface which is the approximate maximum depth of frost penetration in this area. At ground surface, an apron of bentonite covered with gravel with a radius of 3 ft surrounds each well. A well construction diagram for each well is in Appendix E.

Wells were developed following the U.S Army Toxic and Hazardous Materials Agency (USATHAMA) requirement of removal of at least 5 volumes of the standing water in the well plus the annulus. Methods of development included pumping and surging the wells.

## PART V: HYDROGEOLOGY

### Aquifer Structure and Properties

#### Aquifer Structure

Soil borings FTA-B1, -B2 and -B3 were drilled to depths of 81.0 ft, 122.5 ft and 91.0 ft, respectively. All three borings were terminated in a stiff clay (Arundel Formation). The clay was encountered at depths of 75 ft, 69 ft and 71 ft (elevations -16.0 ft, -13.5 ft and -13.9 ft, respectively) in borings FTA-B1, -B2 and -B3, respectively. The sediments above the stiff clay consisted of 58 to 67.5 ft of gravelly, silty sands overlain by 7.5 to 11 ft of silty clay. The gravelly, silty sands are primarily interbedded lenses of fine to coarse, silty sands with scattered traces of gravel, and discontinuous silt and clay lenses. The lenses within the gravelly, silty sands are too irregular to correlate with any confidence between borings. The silty clay and gravelly, silty sands comprise the 2 lithofacies of the Pleistocene Talbot Formation.

The water table aquifer at the AFTA is comprised of the lower 40 to 45 ft of the gravelly, silty sands of the Talbot formation. The water table is generally 25 to 30 ft below ground surface at elevation 31 to 32 ft, msl (Appendix G). Wells FTA-M1 thru -M12 are generally screened from elevation 27 to 37 ft, msl

Borings and well logs (see Table 4) in the vicinity of the AFTA show the silty clay and gravelly, silty sands lithofacies of the Talbot Formation are generally consistent over the areas to the north, northeast and southeast of the AFTA. The thickness of the silty clay facies are generally from 7 to 11 ft while the thickness of the gravelly, silty sand facies thins to the southeast, away from the Fall Line. The thickness of the gravelly, silty sand facies decreases from approximately 60 to 70 ft in the northern area of AA-APG to approximately 30 to 50 ft at Michaelsville Landfill. The upper 30 to 60 ft of soil in the area of the PLF, which is approximately 0.7 miles east of the AFTA, varies from gravelly, silty sands to thick lenses of silt and clay. The upper 47.6 ft of soil at boring PW-21 (see Figure 8) was silts and clays while boring PW-17, located approximately 800 ft to the west had clay from 0 to 12 ft, sands and gravel from 12 to 17 ft, clay from 17 to 26 ft, and sand from 26 to 40 ft.

The AFTA, AA and City of Aberdeen Test Well boring logs show a clay underlying the gravelly, silty sands in the area of AA-APG north of the AFTA. Water well drillers logs for Test Well 20 and the City of Aberdeen Test Wells (1 thru 6) show clay from the base of the gravelly, silty sands (Talbot Formation) to the top of bedrock.

#### Aquifer Properties

No aquifer tests have been conducted on the monitor wells at the AFTA. A pump test was conducted (Baltimore District, 1983) at supply well 1040 to determine the quantity and quality of

water available at wells 1040 and 1041 (Figure 8). Well 1040 was pumped at 300 gpm for 24 hours. The transmissivity for wells 1040 and 1041 were calculated to be 95,422 and 95,500 gpd/ft, respectively. Since the saturated thickness of the aquifer was 55.85 ft, the hydraulic conductivity was 1709 gpd/ft<sup>2</sup>, or  $8.1 \times 10^{-2}$  cm/sec.

Aquifer (slug) tests have been conducted at the PLF (U.S. Army Corps of Engineers, 1980) and MLF (Miller, et al, 1990) on monitor wells screened in the gravelly, silty sands of the Talbot formation. Table 6 lists the results of the aquifer tests. The hydraulic conductivity values ranged from  $0.62 \times 10^{-4}$  to  $70.41 \times 10^{-4}$  cm/sec in the wells screened at the water table and from  $1.09 \times 10^{-4}$  to  $115.19 \times 10^{-4}$  cm/sec in the wells screened at the bottom of the aquifer. The average hydraulic conductivity was  $1.6 \times 10^{-3}$  cm/sec for the water table wells and  $3.2 \times 10^{-3}$  cm/sec for the deeper wells.

Hydraulic conductivity measurements were performed in the laboratory on three undisturbed samples of Arundel clay from the MLF (Miller, et al, 1990). The hydraulic conductivity values ranged from  $5.06 \times 10^{-8}$  to  $1.60 \times 10^{-6}$  cm/sec and had an average value of  $5 \times 10^{-7}$  cm/sec.

### Groundwater Flow

#### Areal Groundwater

The shallow or water table aquifer on AA-APG is in the Talbot Formation. The groundwater flow patterns in the shallow aquifer are dependent on the location on AA-APG. The groundwater flow patterns are affected by factors such as the distance from natural discharge points, the location and size of recharge zones, lithology, seasonal fluctuations in precipitation, and discharge by production wells.

The groundwater flow direction along the northwest boundary of AA-APG in the area of Sod Run Creek is to the southwest where the shallow aquifer discharges into the Bush River (Figures 16 and 17). Figures 16 and 17 show the seasonal drop in groundwater levels from the summer months when precipitation is normally the highest to the winter months when precipitation is normally the lowest. The water level contours on Figure 17 also show the effects of production wells on groundwater flow.

Ground monitor wells AA-1 thru -5 are located north of the AFTA (Figure 8). Monthly and/or quarterly water level data from the AA wells show the fluctuations that occurred in the water table from September 1986 thru March 1990 (Figure 18 and Appendix H). The monthly water level data from February 1987 thru September 1988 shows the seasonal fluctuations in the water table with

Table 6  
Results of aquifer tests in the Talbot formation

SITE	WELL No.		K, cm/sec x 10 <sup>-4</sup>	AQUIFER MATERIAL
PLF	PW-14	T	4.1	silty sand & silty clay
	PW-14	T	5.4	silty sand & silty clay
	PW-15	T	1.2	sand & gravel
	PW-16	T	19.0	sand & gravel
MLF	WES-M-1	T	2.0	silty sand
	WES-M-5	T	0.62	sand
	WES-M-9	T	11.49	sand
	WES-M-14	T	70.41	sand & gravel
	WES-M-18	T	9.81	sand & gravel
	WES-M-21	T	5.56	sand
	WES-M-22	T	46.93	sand
	WES-M-24	T	15.41	sand
	WES-M-3	B	1.09	sand/interbedded clay, silt & sand
	WES-M-6	B	3.19	sand
	WES-M-11	B	36.56	sand & gravel/interbedded clay, silt & sand
	WES-M-15	B	1.33	sand
	WES-M-19	B	115.19	sand & gravel
	WES-M-23	B	114.73	sand & gravel
	WES-M-25	B	1.81	sand/interbedded clay, silt & sand
PLF -- Phillips Army Airfield Landfill MLF -- Michaelsville Landfill T -- well screened at top of aquifer B -- well screened at base of gravelly, silty sands				

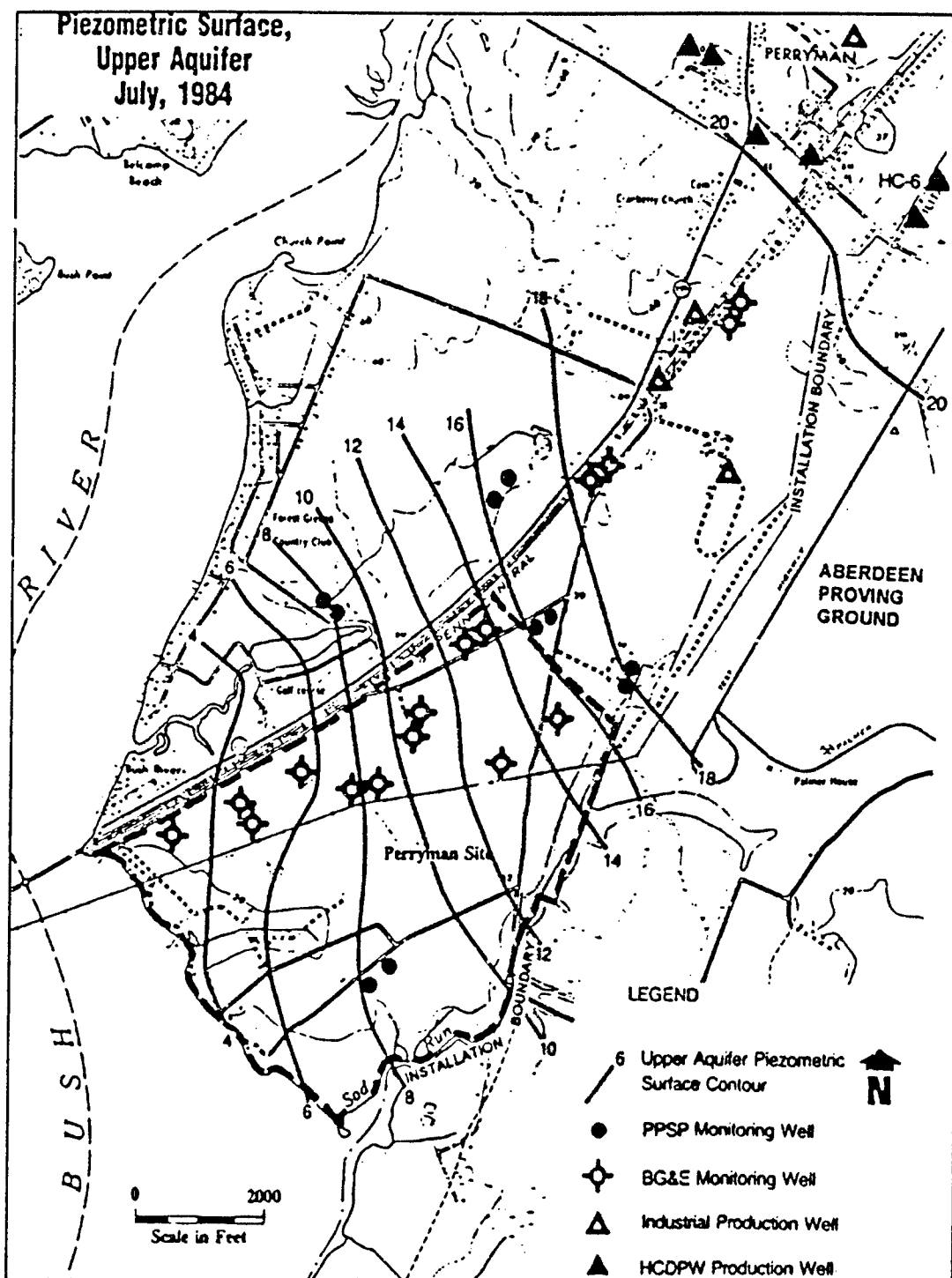


Figure 16. Water level contour map (July 1984) of the shallow aquifer along the northwest boundary of AA-APG (Bandoian and Wardrop, 1985).





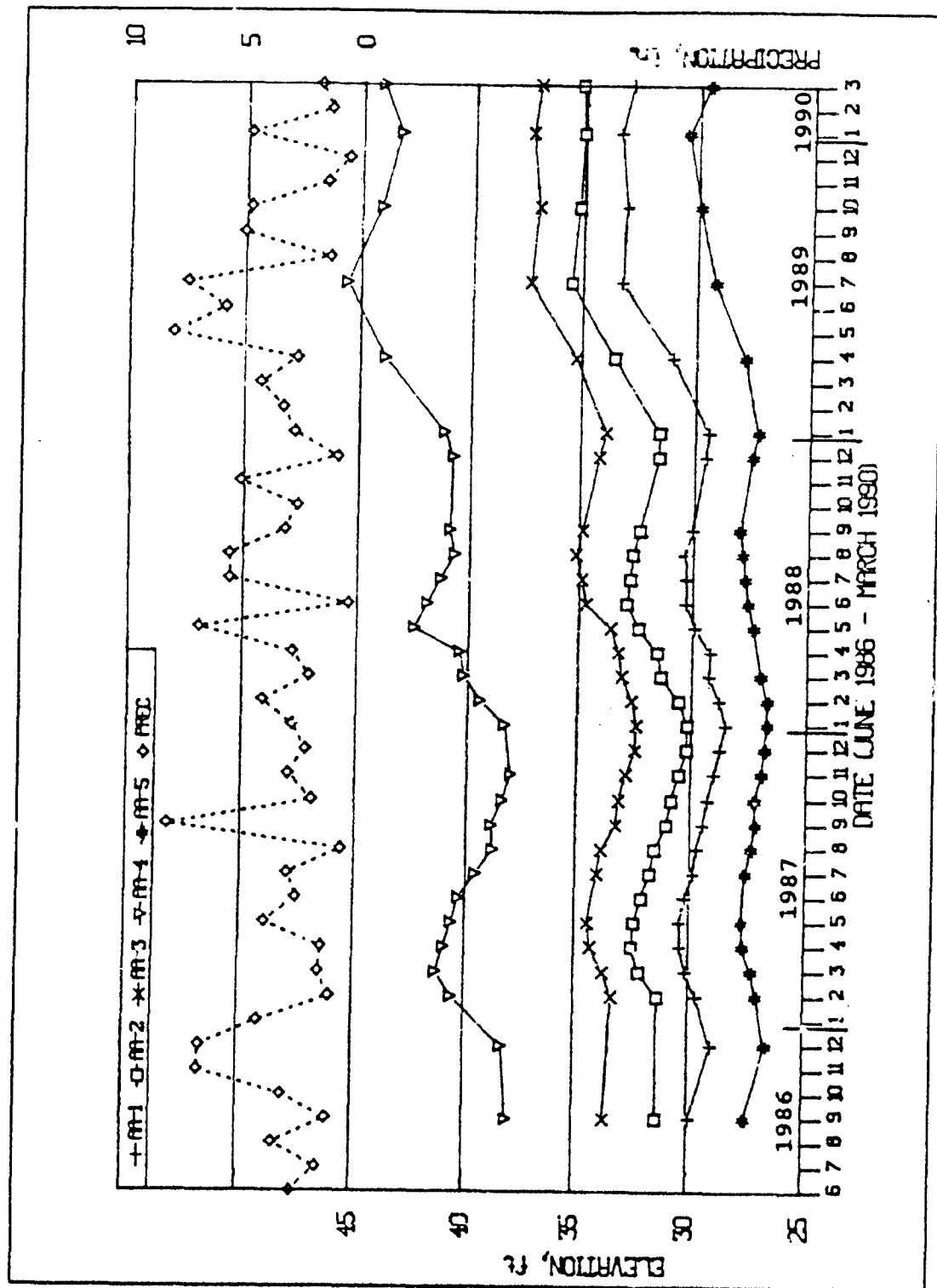


Figure 18. Water level data for wells AA-1 thru AA-5.

the higher water levels corresponding to the summer months when precipitation was highest and the lower water levels to the winter months when precipitation was the lowest. The groundwater flow direction is not effected by the seasonal fluctuations in the water level. Figure 19 shows water table contour maps for 6 sets of water level data. Figure 18 was used to select 6 sets of that would represent the seasonal fluctuations in the water table. The 6 sets of data are :

1. September 1986 - the initial set of water level data
2. November 1987 - water levels declining; near seasonal low
3. May 1988 - water levels rising; well AA-4 at highest level while other 4 AA wells still rising
4. August 1988 - water level declining in wells AA-4 and AA-2, and rising in wells AA-1, AA-3 and AA-5
5. July 1989 - highest water levels recorded for wells AA-1 thru AA-4; AA-5 still rising
6. March 1990 - final set of water level data.

The groundwater flow direction is consistently to the east, even during seasonal fluctuations in water levels.

All 5 of the AA wells reflect the seasonal variations in precipitation, however there is a significant difference in the amount of change that occurs in each well. Figure 18 shows the maximum change in water level occurs at well AA-4 and the minimum change occurs at well AA-5. The location and nature of the natural recharge and discharge areas are a primary cause of the variability in water levels changes. The water levels in the AA wells may also be affected by the City of Aberdeen (CAP) production wells (Figure 8). Figure 20 shows the average daily pumpage for the CAP wells. The CAP wells average daily pumpage from January 1986 thru December 1990 was 1.19 million gallons per day (mgd). The average daily pumpage increased from 1.06 mgd in 1988 to 1.26 mgd in 1989 and 1.29 mgd in 1990. The average daily pumpage is normally higher in the summer months and lower in the winter months. All of the CAP wells pump from the Talbot formation. CAP wells 1, 2 and 3 have not been used since the mid-1980's. There are no noticeable effects of the CAP wells on the water table contour maps (Figure 19). The May and August 1988 water table contour maps correspond to average daily pump rates of less than 1 mgd while the September 1986 and July 1989 maps correspond to average daily pumpage rates of approximately 1.35 mgd.

Water level data from the AFTA, PLF and the AA wells show the groundwater flow directions in the area to the north of the AFTA vary from the south to the east. Figure 21 shows water level contour maps for January and March 1990. The groundwater flow direction changes

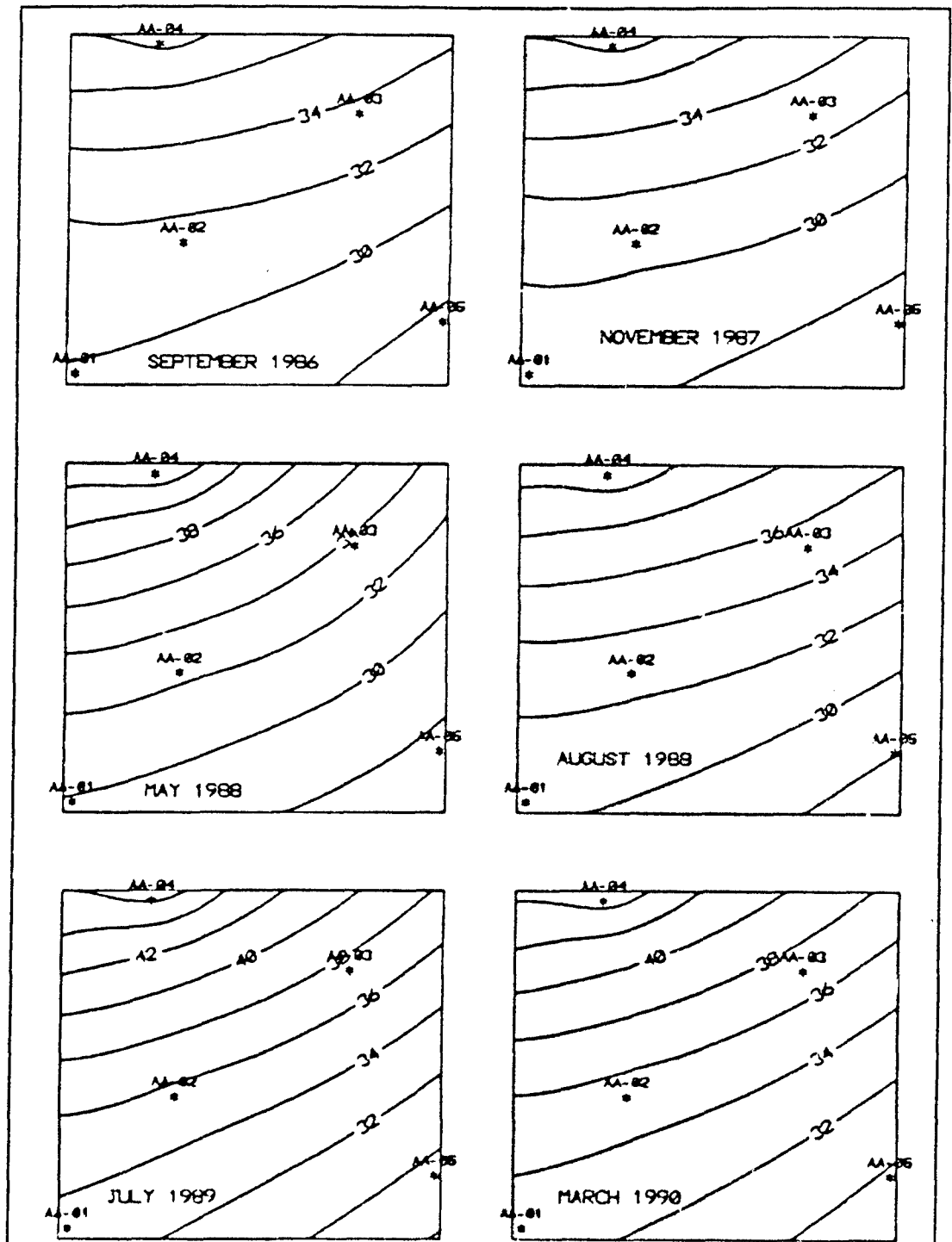


Figure 19. Water level contour maps using data from wells AA-1 thru AA-5. Contours are in feet. See Figure 8 for well locations.

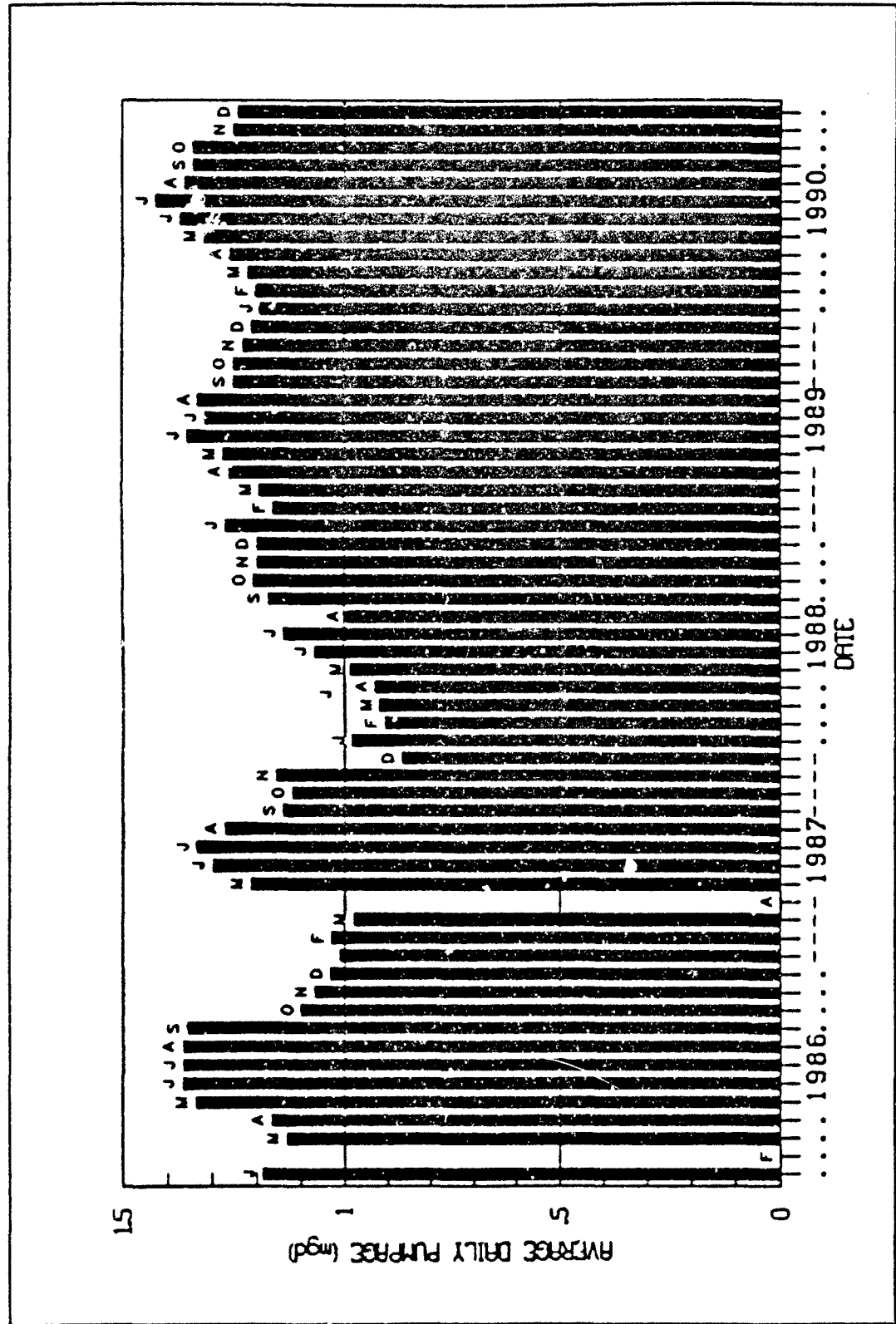


Figure 20. Average daily pumpage for the City of Aberdeen wells.

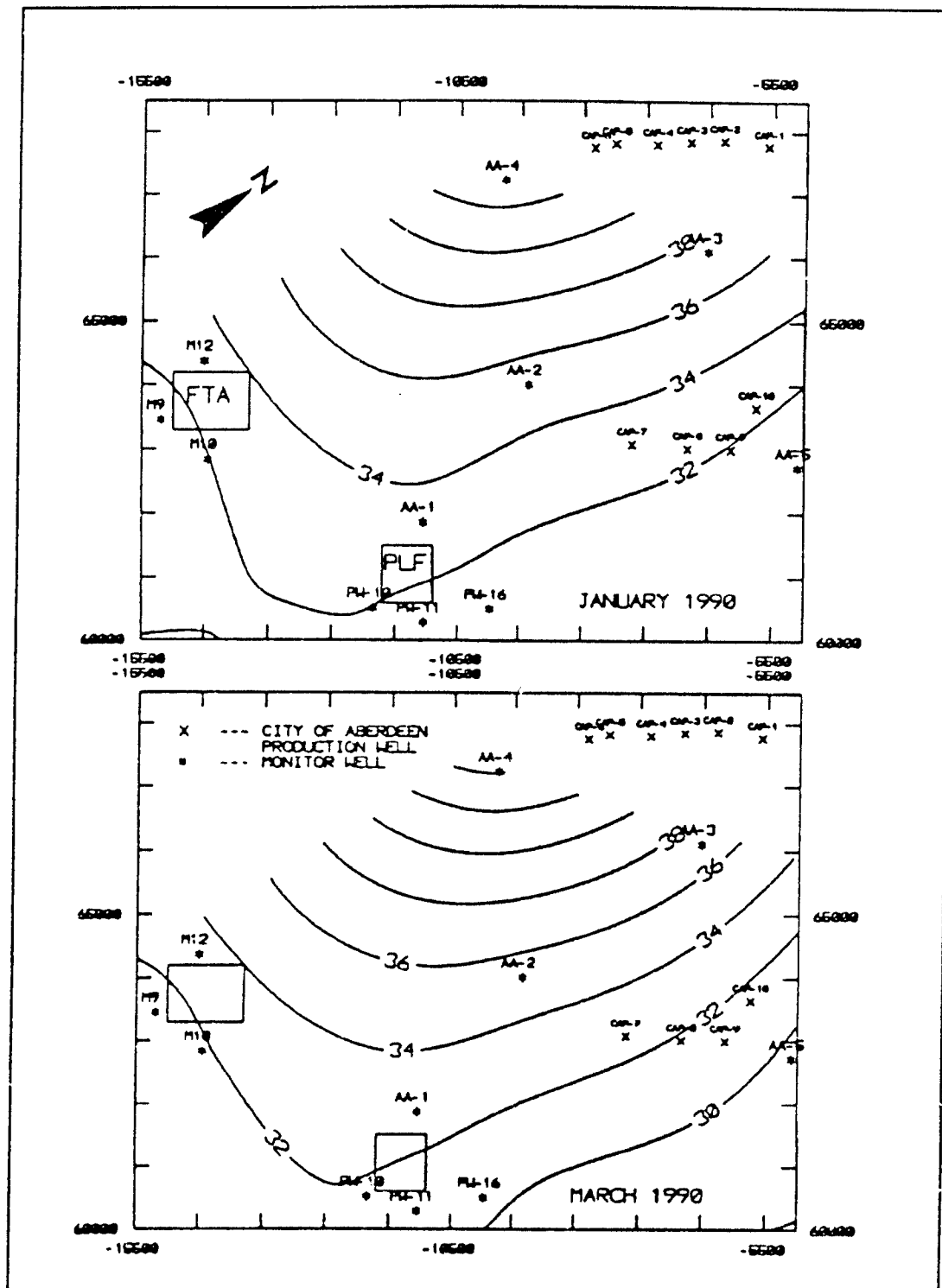


Figure 21. Water level contour maps (January and March 1990) of the northern area of AA-APG.

from due south at the AFTA to easterly at the PLF and areas to the north of the PLF.

Harford County has 8 groundwater production wells (HCP) to the west of the AFTA (see Figure 8). Wells HCP-5, -6, -8 and -9 are located along the west boundary of AA-APG, just inside the boundary fence, while wells HCP-1, -2, -3 and -4 are located a few thousand feet west of wells HCP-5 and -6 in Perryman, Maryland. Wells HCP-8 and -9 are approximately 4200 ft and 5200 ft respectively, west of the AFTA. Wells HCP-5 and -6 are approximately 8000 ft west-southwest of the AFTA. Wells HCP-5, -6 and -9 are partially screened in the Talbot formation. Well HCP-8 is screened in the deeper Cretaceous sands. There are no production rates for each well. Each well runs from 16 to 20 hours a day. Figure 22 shows the average daily pumpage for the HCP wells. The average daily pumpage has increased from 2.6 mgd in 1988 to 3.3 mgd in 1989 to 3.5 mgd in 1990.

#### AFTA

Seven rounds of water level data were collected at the AFTA from December 1989 thru October 1990. Figure 23 shows the changes in the water table at wells FTA-M1 thru -M12, except for well FTA-M3 which is dry. The changes in water levels correspond to the fluctuations in seasonal precipitation. The water level rises in the summer months when precipitation is the highest and declines in the winter months when precipitation is the lowest. The water levels at all the AFTA wells have the same general response to an increase or decrease in precipitation. The only noticeable difference in water level responses in the AFTA wells was at wells FTA-M2, -M11 and -M12 in February 1990. The water level in wells FTA-M2, -M11 and -M12 increased 0.26 ft, 0.14 ft and 0.10 ft, respectively, from January 1990 to February 1990 while decreasing in all the other AFTA wells. Wells FTA-M12, -M2 and -M11 are located approximately 850 ft, 1150 ft and 1200 ft, respectively, southeast of a small drainage that flows into Romney Creek. The increases in the water levels at wells FTA-M12, -M2 and -M11 in February 1990 resulted from groundwater recharge from the small drainage. Precipitation had increased from an unusual low of 0.59 inches in December 1989 to a higher than average 4.84 inches in January 1990. The groundwater recharge was not as noticeable in the other AFTA wells which are further from the small drainage.

The groundwater flow direction is to the south, as shown in Figure 21. Figures 24 thru 30 are water table contour maps for the 7 rounds of water level data collected from December 1989 thru October 1990. The groundwater flow direction to the south and hydraulic gradient of 0.002 remained constant during the seasonal fluctuations in water levels.

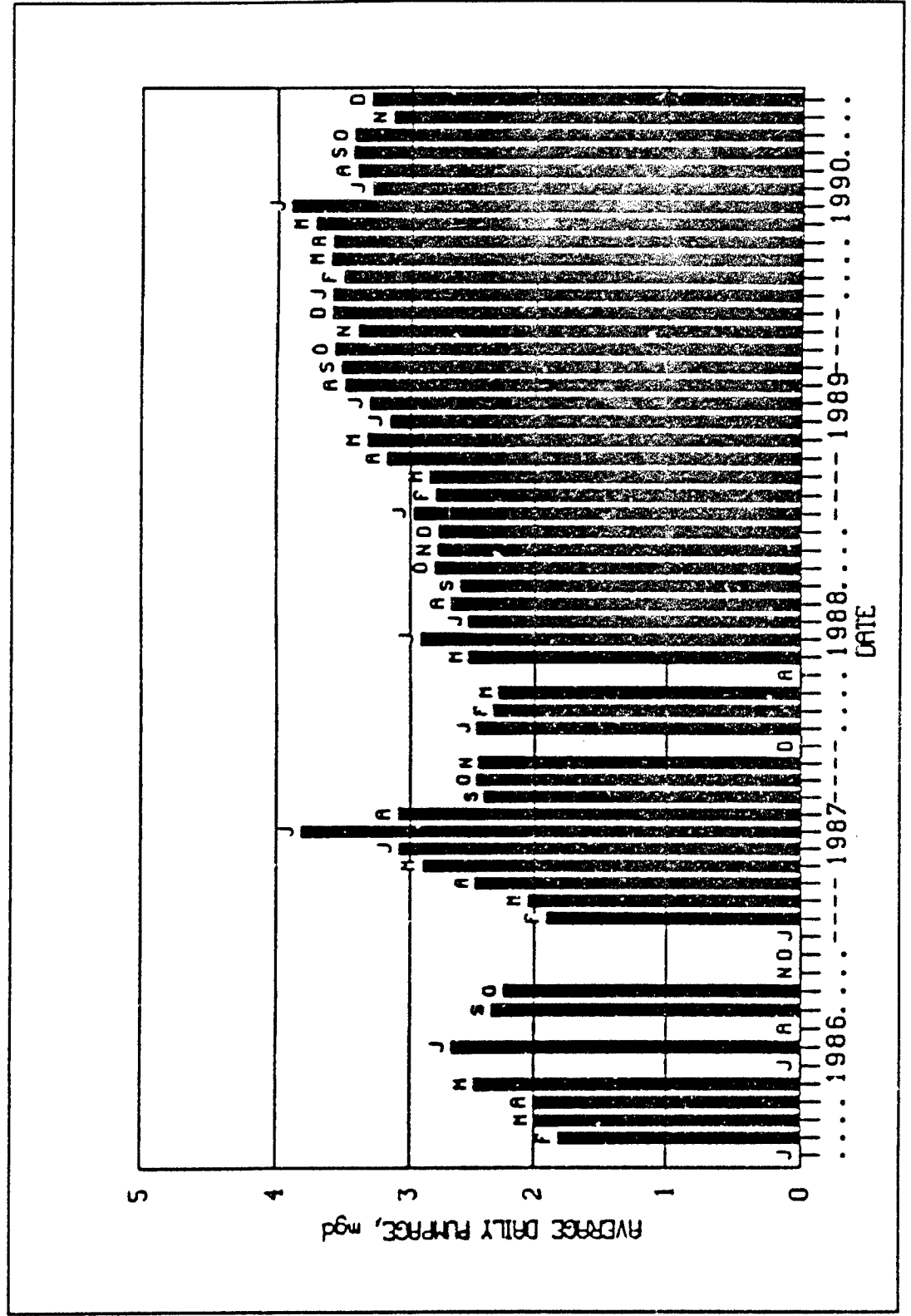


Figure 22. Average daily pumpage for Harford County production wells.



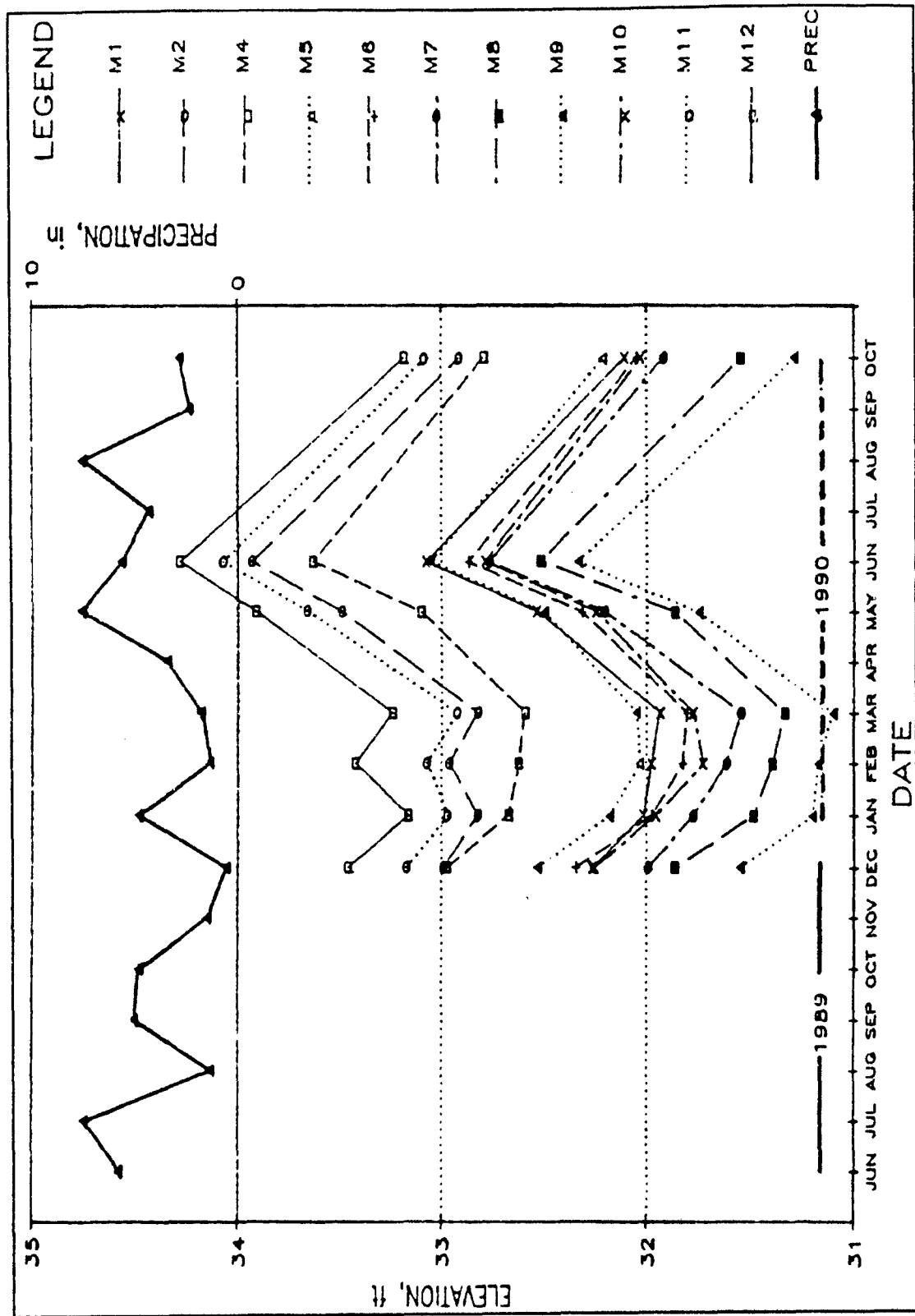


Figure 23, Water level data for the AFTA monitor wells,

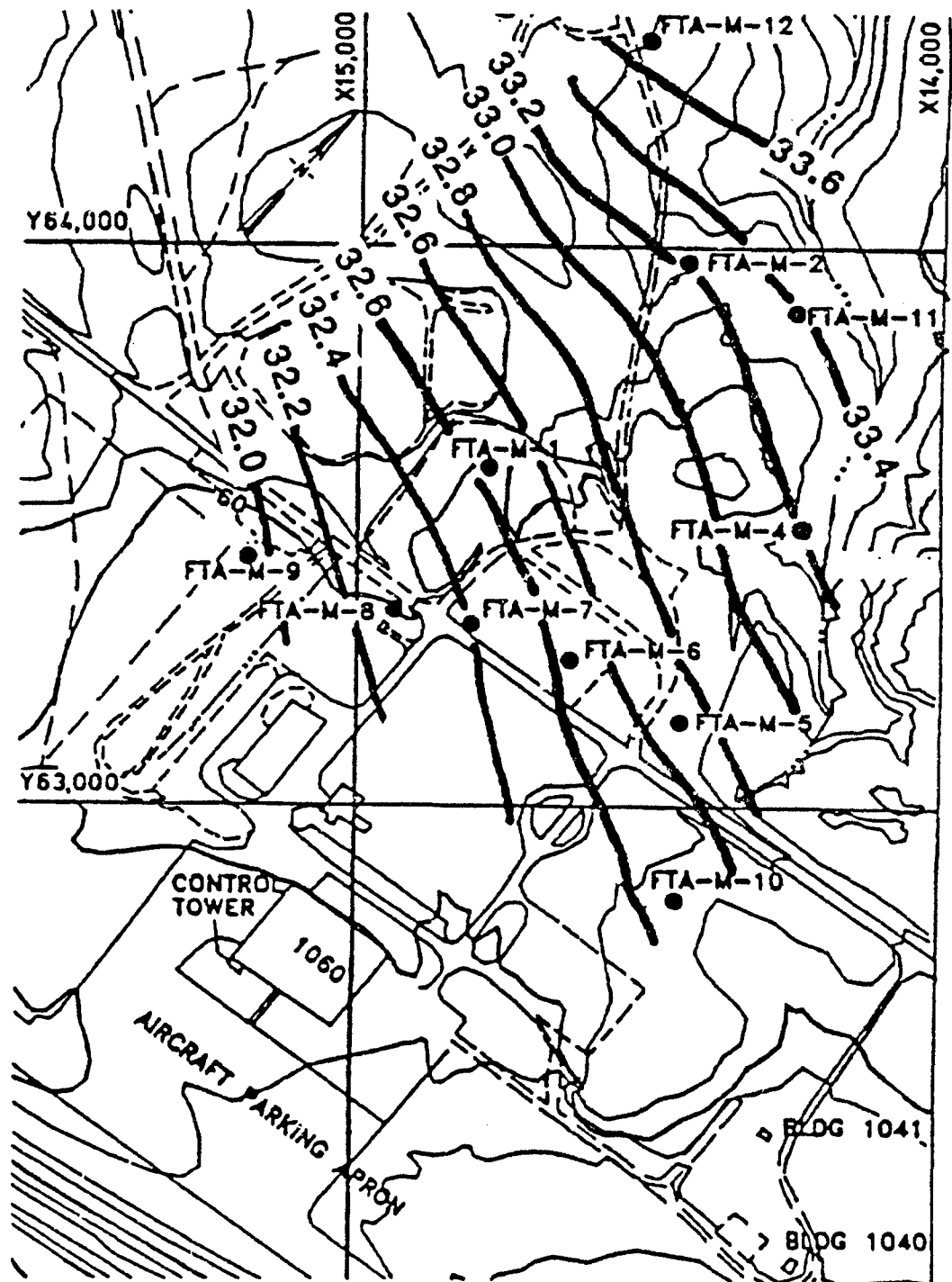


Figure 24. Water level contour map (12 December 1989) at the AFTA.

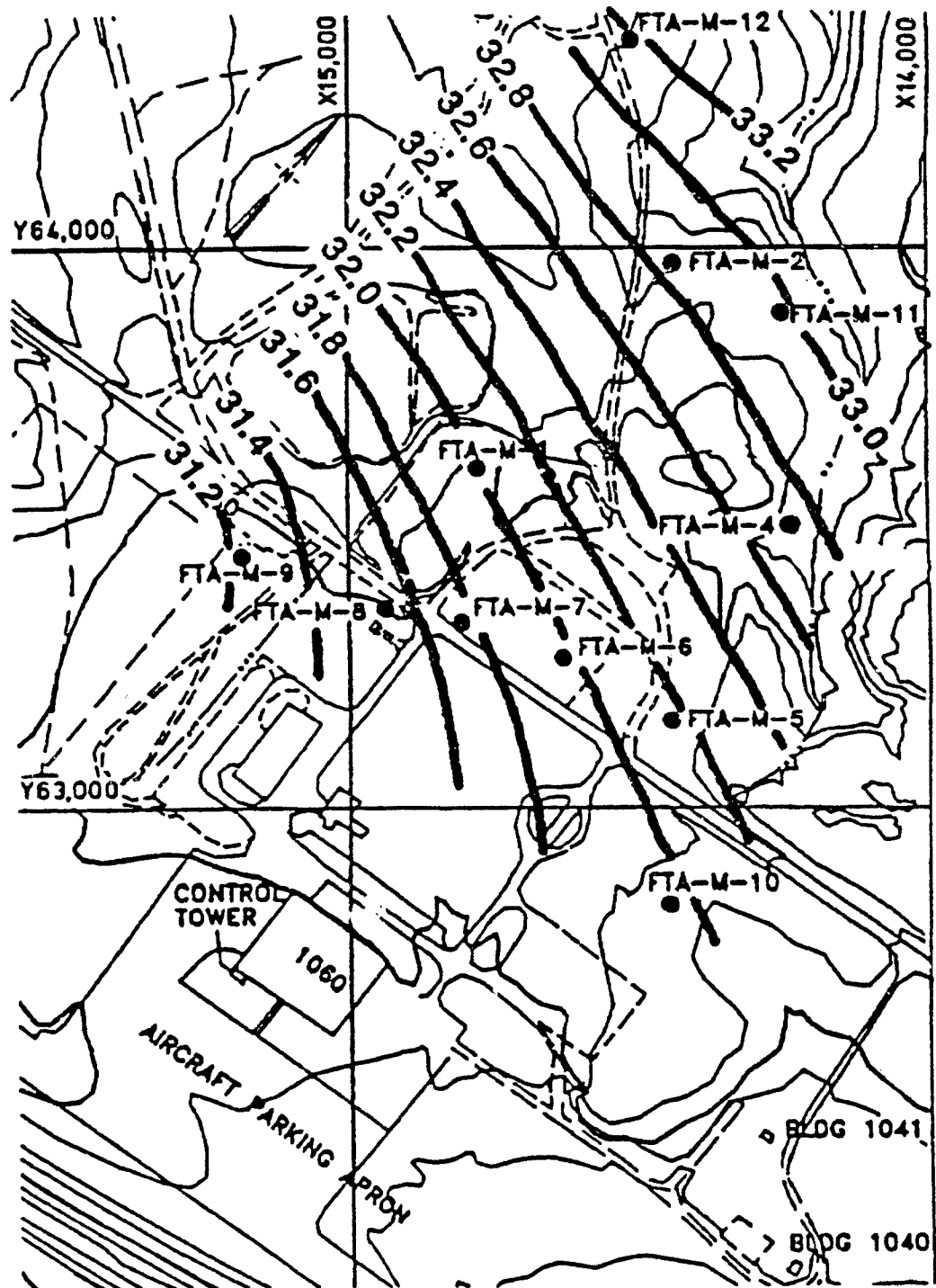


Figure 25. Water level contour map (12 January 1990) at the AFTA.

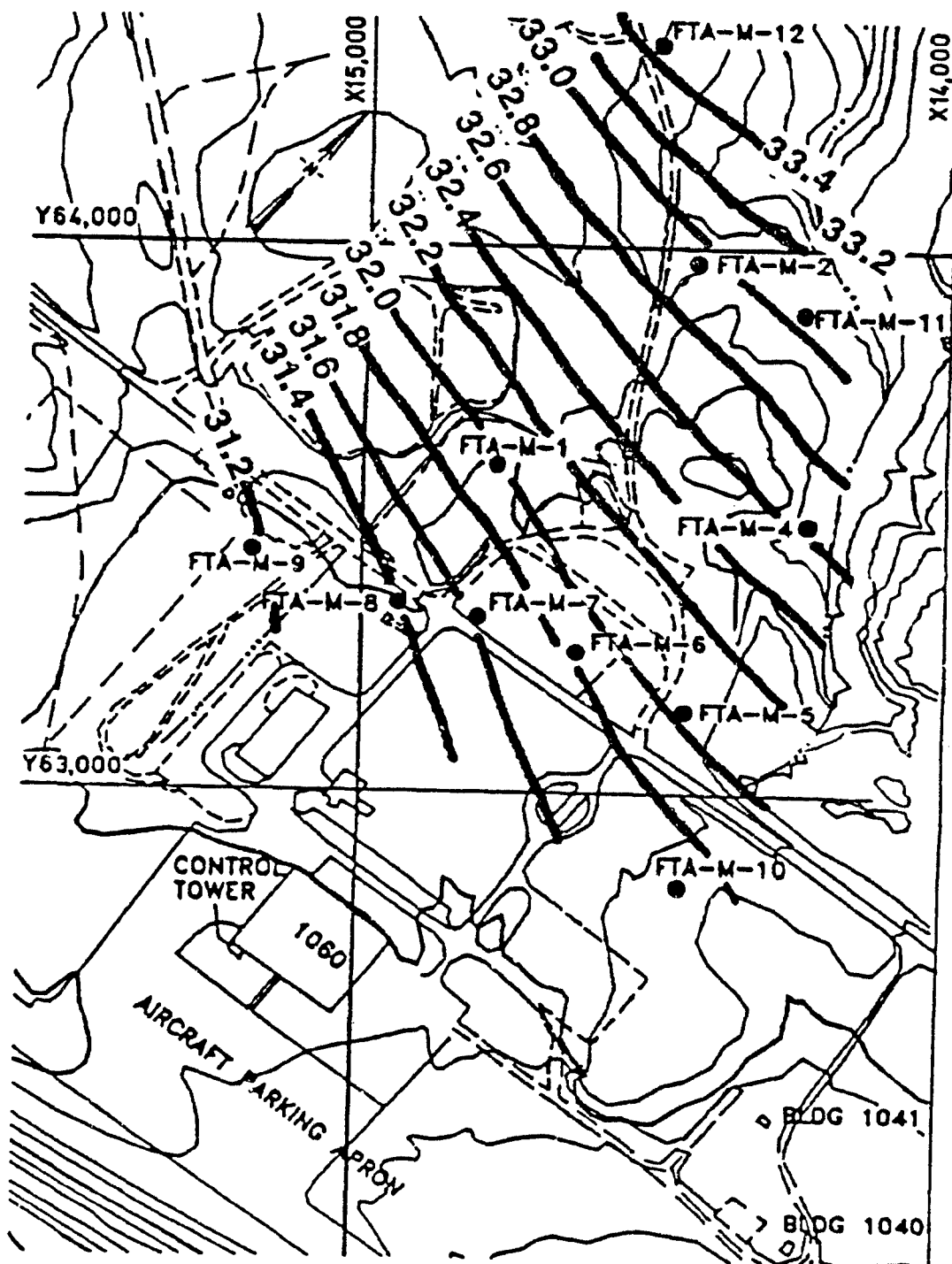


Figure 26. Water level contour map (28 February 1990) at the AFTA.

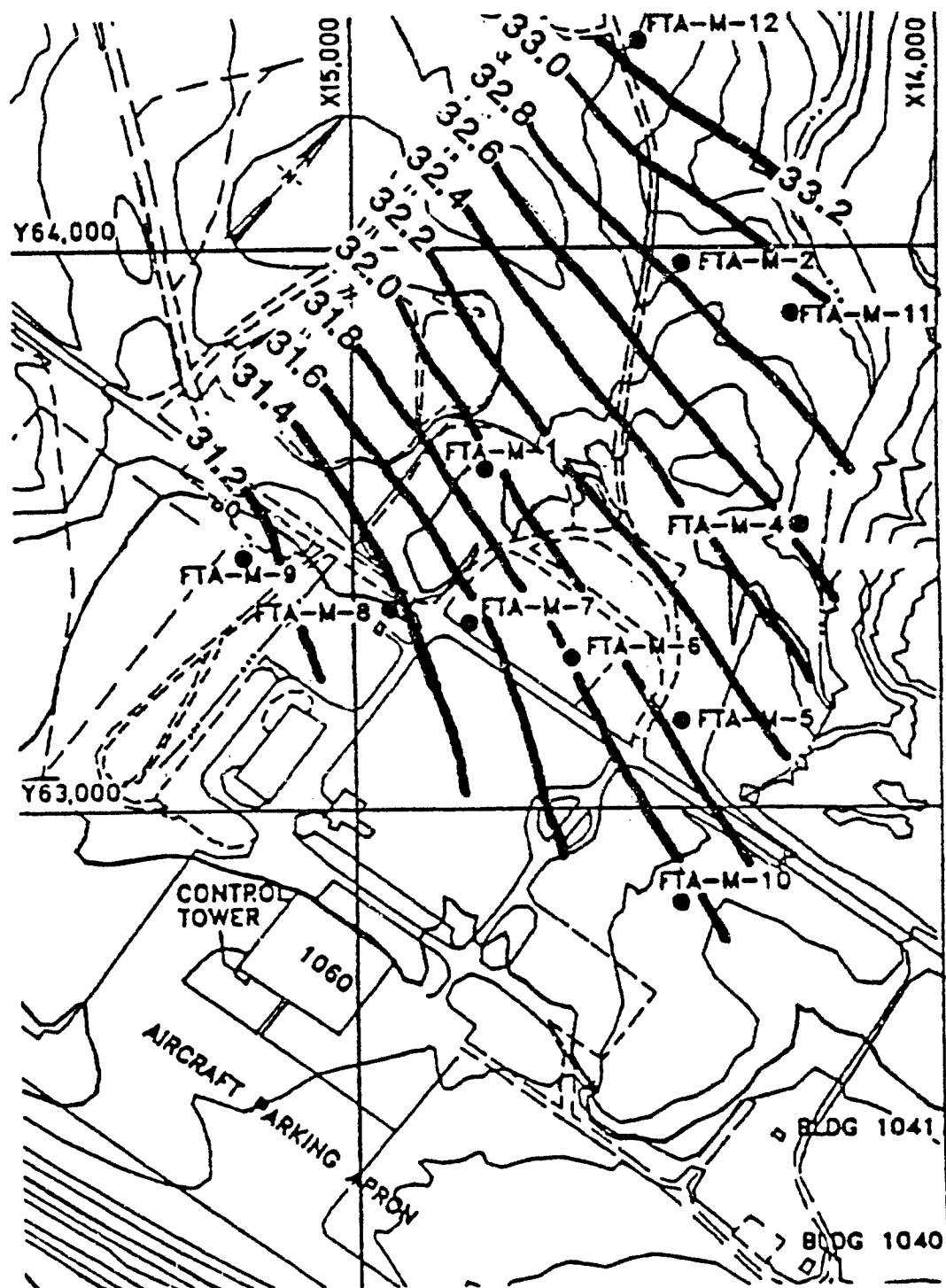


Figure 27. Water level contour map (26 March 1990) at the AFTA.

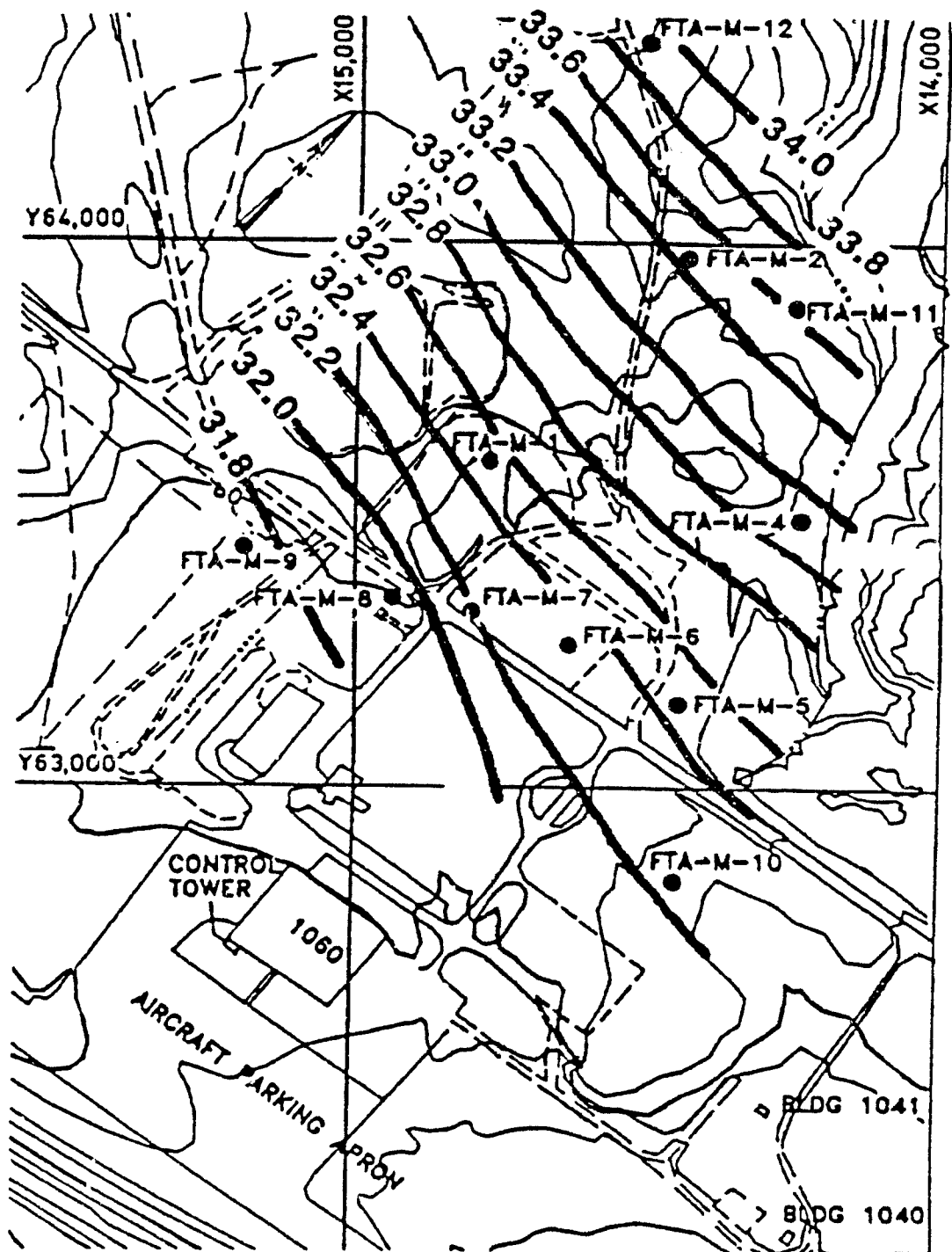


Figure 28. Water level contour map (30 May 1990) at the AFTA.

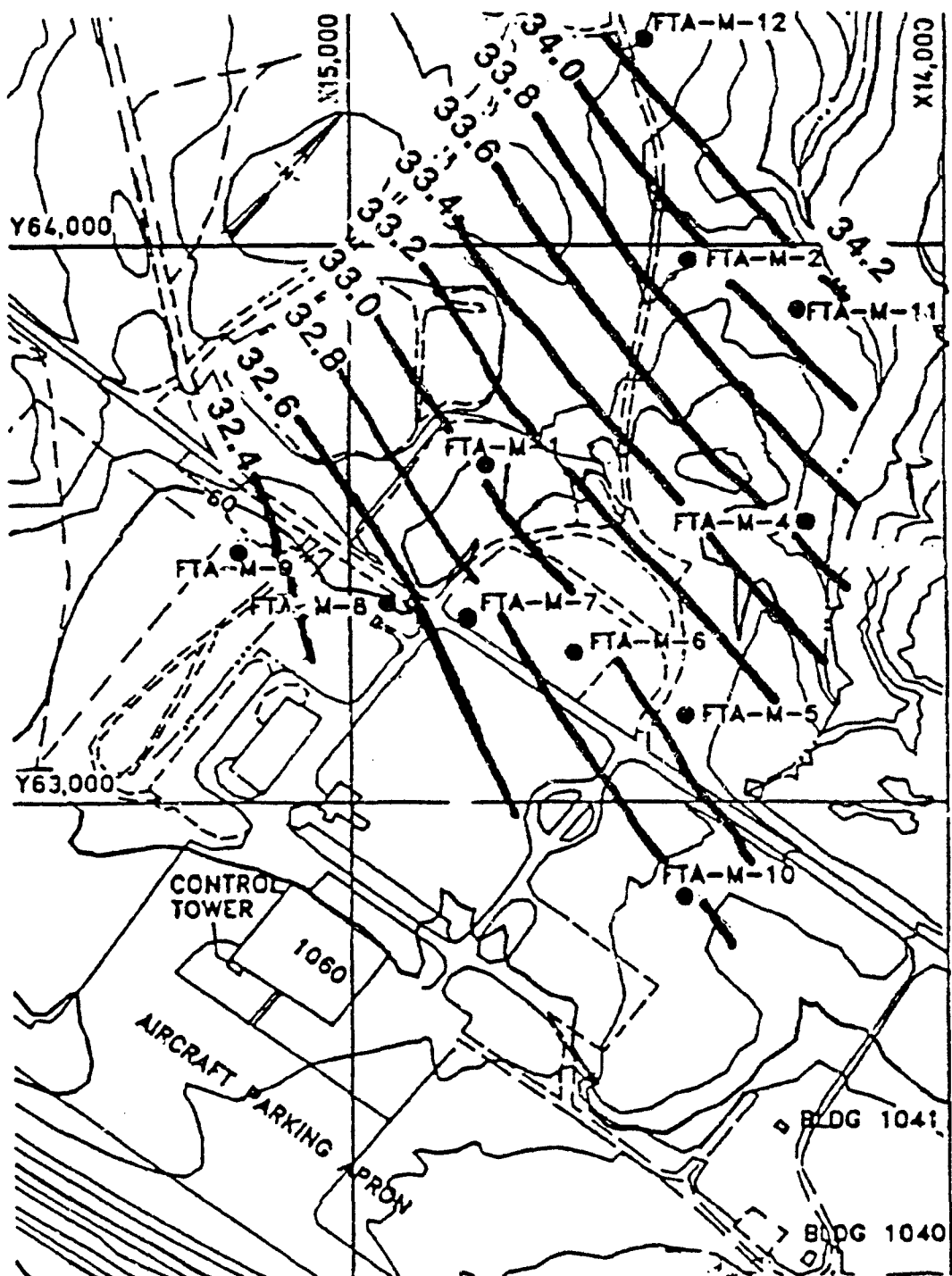


Figure 29. Water level contour map (28 June 1990) at the AFTA.

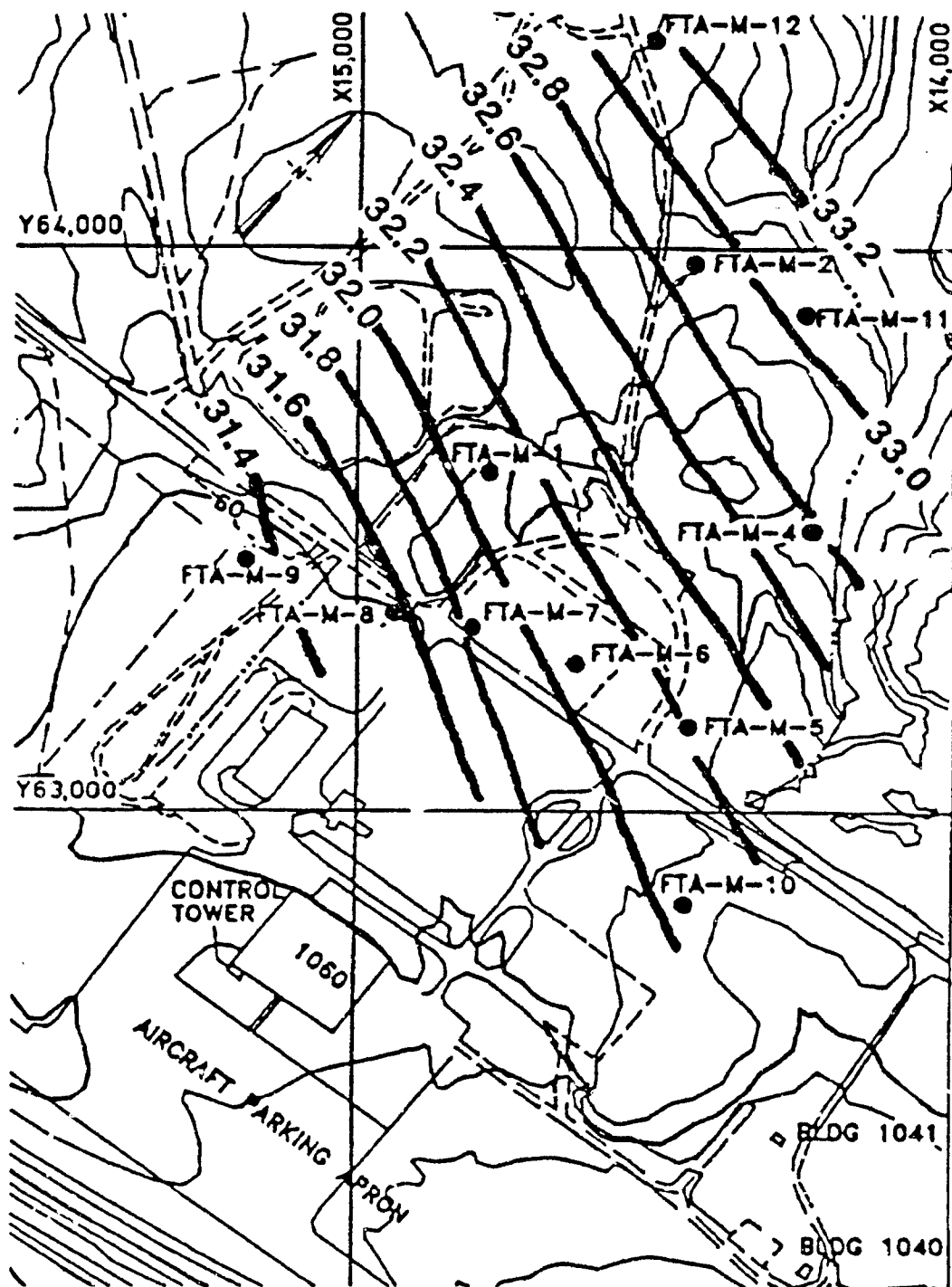


Figure 30. Water level contour map (31 October 1990) at the AFTA.



## PART VI: SAMPLING AND ANALYSIS

### Overview

This part describes procedures used in cleaning sample containers, purging wells, sampling wells, collecting surface water samples, collecting soil samples, cleaning equipment, maintaining chain-of-custody, and preserving samples. This part also discusses the analytical techniques used for chemical analysis of the samples.

### Groundwater Sampling

A bound logbook was used to keep a record on individual wells. The items listed below were recorded in the logbook.

- a. The site location.
- b. The name of individuals involved in sampling.
- c. The well identification number.
- d. The well depth.
- e. The water level.
- f. Amount of water purged in gallons.
- g. Note if the well went dry or recharged slowly.
- h. Note if the well was unlocked or had no well cap.
- i. Conductivity, pH, and temperature readings before purging and/or after sampling, if appropriate.
- j. HNU readings of well headspace.
- k. Any unusual odor and/or color of samples.
- l. Surface water and soil sample locations (a sketch was preferred).

The purging equipment used to remove three well volumes before the water sample was taken included:

- a. 3.5" OD submersible pump.
- b. 10-ft sections of pvc discharge pipe.
- c. Gas powered generator.
- d. 3.5" OD pvc bailer.
- e. 1/4" nylon rope.

A teflon bailer was used to collect samples from each well. Teflon is the material of choice

for use in sampling inorganic or organic contaminants of interest. This material is least likely to introduce significant sampling bias. Teflon is the easiest material to clean in order to prevent cross-contamination. The following sampling equipment was used :

- a. 1.5" OD teflon bailer.
- b. Spool of teflon cable.
- c. Sample containers.

All samples were placed in appropriate containers that had been cleaned according to the protocols described in the paragraph on Sample Containers. The appropriate preservative was added to the collected sample and the container was securely capped. Sample containers were labeled and logged in the logbook. The samples were placed in ice chests immediately after sampling and delivered to the laboratory within accepted holding times. The samples were kept on ice during shipment and stored at 4°C prior to chemical analysis.

Equipment used for making field measurements of water levels, well depths, temperature, conductivity, salinity, volatile gases, and pH prior to purging or sampling the well included the following items.

- a. pH meter.
- b. Salinity/Conductivity meter.
- c. M-Scope.
- d. HNU meter.
- e. Filtering apparatus.

Field filtering equipment was used to filter groundwater samples to be analyzed for metals and TOC. The filtration step was done to allow for determination of soluble metals and TOC. A pressure filtration apparatus with a 0.45 micron high capacity filter was used to filter groundwater samples in the field. Filtration was not required for surface water samples.

#### Field Measurements and Purging of Wells

Prior to purging of the monitoring wells, HNU readings were taken in the headspace of each well. The water level and the well depth of each well were measured from top of casing and recorded before purging began. The purge volume was then determined by calculating the three well volumes required for removal. The equations used for calculating purged volumes of water follows:

$$A \text{ (cu ft)} = 0.8 \times (d^2) \times (h-c)$$

$$B \text{ (gals)} = A \times 7.48 \text{ gal/ft}^3$$

$$V \text{ (gals)} = 3 \times B$$

where A = volume of the well, ft<sup>3</sup>  
B = volume of the well, gals  
b = well depth, ft  
c = depth to water level, ft  
d = diameter of the well, ft  
V = volume to be purged, gal

After the volume of water to be purged had been determined, the water was removed by pumping or bailing. If the well recharged quickly and/or contained 20 gals or more of water to be purged, the well water was removed with a submersible pump. If the well recharged slowly and/or contained less than 20 gals of water, purging was done by bailing the water with a PVC bailer. Nylon rope was used to lower the pump or bailer into the wells. A new rope was used for purging each well. As mentioned earlier, the purged water and excess water from cleaning equipment or sampling were drummed for subsequent EP toxicity testing and disposal. The purging apparatus was cleaned and decontaminated before use in another well to prevent cross contamination.

#### Sampling Of Groundwater Wells

Before sampling of groundwater wells began, equipment blanks were collected and analyzed for the contaminants of interest. These blanks permit the correction of analytical results for changes which may occur after sample collection. One set of blanks per day for each contaminant of interest was made up in the field on each day of sampling. The blanks were obtained by using double deionized (DDI) water and subjecting it to the same sampling, filtering, and preservation equipment as a normal sample. The blanks were collected in containers that were triple rinsed with unfiltered (for organic analytes) or filtered (for inorganic analytes) distilled water.

After the well was purged, the samples were obtained immediately. For slow recovering wells, the sample was collected immediately after a sufficient volume was available. The groundwater well samples were collected with a teflon bailer lowered on a teflon coated cable into the well casing. After obtaining the groundwater samples, a second sample was collected for temperature, conductivity, and pH measurements, which were measured in the field.

#### Samples for Metals Analysis.

Samples for metal analysis were filtered in the field using a 0.45 micron high capacity filter. The sample containers were triple rinsed with filtered sample before obtaining a sample for analysis.

#### Samples for Organic Analysis.

When sampling water for volatile compounds, extra care was exercised to prevent analyte losses due to volatilization. Precautionary measures included avoiding aeration or agitation of the

sample, taking care that no air bubbles were trapped in the sample vial, and never allowing a volatile sample to freeze.

#### Surface Water Sampling

Before sampling of surface water, sample containers were sample rinsed, taking care not to disturb sediments at the sampling point. Surface water samples were not filtered. All samples were placed in containers that had been cleaned according to the protocols in the paragraph on Sample Containers. The appropriate preservative was added to the collected sample and the container was capped securely. Sample containers were labeled and logged in the logbook. The sample containers were placed in ice chests immediately after sampling and delivered to the laboratory within accepted holding times. The samples were kept on ice during shipment and stored at 4°C prior to chemical analysis.

#### Surface Soil Sampling

Surface soils samples were collected from locations representative of site conditions. Discrete samples were collected with a stainless steel scoop, composited, and analyzed.

Prior to sampling, surface vegetation, rocks, pebbles, leaves, twigs, and debris were cleared from the sample location to allow collection of a representative soil sample (Environmental Protection Agency, 1986). The sampling equipment was cleaned before and after collection of each sample. The sampling equipment was thoroughly scrubbed and rinsed with DDI water and then dried with clean paper towels.

All samples were placed in containers that had been cleaned according to the protocols in the paragraph on sample containers. Sample containers were labeled and logged in a logbook. The sample containers were placed in ice chests immediately after sampling and kept on ice during shipment. Samples were delivered to the laboratory within accepted holding times.

Prior to soil sampling, an equipment blank was collected by rinsing the sampling equipment with DDI into the appropriate sample container. The sample containers were triple rinsed with a portion of the blank rinsate before the sample(s) was taken.

#### Equipment Decontamination

### Groundwater.

All equipment used to measure, purge, filter, and sample the groundwater wells was cleaned between each well to prevent cross-contamination between wells. No detergents, soaps, or solvents were used to clean equipment in the field. Clean disposable gloves are worn at all times to eliminate cross-contamination. The equipment decontamination procedure included rinsing with 10% nitric acid solution then thoroughly rinsing with distilled water three times.

### Surface Water and Soil.

Equipment used for collecting soil and surface water samples were rinsed thoroughly with DDI. Sometimes scrubbing was required when sediments adhered to sampling equipment. No detergents, soaps, or solvents were used to clean equipment in the field. Clean disposable gloves are worn at all times to eliminate cross-contamination.

### Sample Preservation

The purpose of sample preservation is to prevent or retard the degradation/modification of chemicals in water samples during transit and storage. Efforts to preserve the integrity of the samples were initiated at the time of sampling and continued until chemical analysis was completed.

### Sample Containers

All sample containers were cleaned. The following steps were taken to minimize contamination from the containers in which the samples were stored. If the analytes were organic, the containers were amber glass bottles. Organic volatile samples were collected in 40 ml glass vials. If the analytes were inorganic, the containers were polyethylene bottles. Containers for soil samples were 40 ml glass vials for volatile organics and 16 oz. wide mouth glass jars for the other priority pollutants. New sample bottles were cleaned according to the procedure presented below; reuse of sample containers was prohibited. Use of commercially certified cleaned containers was allowed if the cleaning procedure complied with that listed below.

- Polyethylene Bottles and Polyethylene Caps
  - a. Rinse bottles and lids with 5% sodium hydroxide.
  - b. Rinse with DDI.
  - c. Rinse with 5% Ultrex nitric acid in deionized water.
  - d. Rinse with DDI.
  - e. Drain and air dry.
- Amber Glass Bottles, Wide Mouth Glass Jars, or 40 ml Glass Vials

- a. Scrub and wash bottles in detergent.
  - b. Rinse with copious amounts of DDI.
  - c. Rinse with acetone.
  - d. Rinse with methylene chloride.
  - e. Rinse with hexane.
  - f. Air dry.
  - g. Heat to 200°C.
  - h. Allow to cool.
  - i. Cap with clean caps with teflon liners.
- Teflon Liners (avoid contact with fingers)
    - a. Wash with detergent.
    - b. Rinse with DDI.
    - c. Rinse with acetone.
    - d. Rinse with hexane.
    - e. Air dry.
    - f. Heat to 40°C for 2 hours.
    - g. Allow to cool.
    - h. Use to cap cleaned bottles.

The sample containers, including caps, were triple rinsed with sample water, if appropriate. Bottles and caps for filtered samples were rinsed with filtered sample water and bottles and caps for unfiltered samples were rinsed with unfiltered sample water.

#### Field Measurements

##### Field Measurements Prior To Purging

There were no positive HNU readings detected in any of the wells. Water levels and depths to the bottom of the wells were measured and recorded for each well. FTA-M3 was dry during all 3 sample rounds.

##### Field Measurements After Sampling

Conductivity, pH, and temperature measurements were made immediately after the samples were collected.

#### Chain of Custody

A chain-of-custody procedure was used to maintain the integrity of the sample after collection. The samples were locked up whenever they were not being attended. After the samples were collected a chain-of-custody sheet was placed inside the ice chests, and chain-of-custody seals were placed on the shipping container.

## PART VII: ANALYSIS OF CHEMICAL DATA

### Surface-water Samples

Table 7 (Appendix I) contains the compounds detected in the four surface-water samples collected from the AFTA and the guidelines for water for these compounds. A sample was collected from Berm 2, Berm 3, the separation pond associated with Berm 3 and the stream (outfall) leaving the separation pond (Figure 31).

Sources for the guidelines used are the Drinking Water Regulations and Health Advisories (Environmental Protection Agency, 1991) and the Water Quality Criteria established by EPA in 1986 for freshwater and marine aquatic life. Criteria has been established for acute and chronic symptoms. Acute symptoms occur quickly and chronic, occur over time.

#### Berm 2.

FTASB2 is the sample collected from the water standing in Berm 2 (Figure 32). Cadmium, lead, and benzene exceeded the MCL. The water quality criteria for freshwater and marine aquatic life were exceeded by cadmium, chromium, copper, lead, nickel, silver, and zinc. Oil and grease was detected at 34,763,000 ug/L. Water quality criteria states that "surface waters shall be virtually free from floating nonpetroleum oil of vegetable or animal origin, as well as petroleum derived oils" (Environmental Protection Agency, 1986).

Benzene, toluene and xylenes, contaminants associated with gasoline and fuels, were detected. Only Benzene exceeded an MCL. Concentrations of all three compounds were below the water quality criteria for aquatic life. Phenanthrene and 2-methylnaphthalene, also contaminants associated with fuel or petroleum products, were detected at concentrations of 63,000 ug/l and 140,000 ug/L, respectively.

Methylene chloride, acetone, and 2-hexanone, purgable organics that have many industrial uses as solvents, were detected in FTASB2. Methylene chloride was detected at 480 ug/L, acetone at 110,000 ug/L, and 2-hexanone at 1300 ug/L. Both methylene chloride and acetone are common solvents used in the laboratory for cleaning.

#### Berm 3.

Sample FTASB3 was collected from the water standing in berm 3 (Figure 33). Samples were also collected from 2 areas adjacent to the berm that contained water, the separation pond (sample FTASB3SP), and the stream leaving the separation pond (sample FTSB3OF).

Cadmium, lead, and benzene exceed the MCL in FTASB3. Cadmium, chromium, copper,

Table 7  
Parameters detected in surface water samples at AFTA

PARAMETER	SAMPLE ID					MCL	FRESH WATER QUALITY CRITERIA		MARINE WATER QUALITY CRITERIA	
	FTASB2	FTASB3	FTASB3SP	FTASB3OF	FTASB3OF		ACUTE	CHRONIC	ACUTE	CHRONIC
Arsenic	7	10	7	5	5	50	850	48	2,300	13,000
Cadmium	37.1 #	30.5 #	6.6 #	6.2 #	#	< 5 >	3.9	11	43	9.3
Chromium	93 #	54 #	38 #	23 #	#	100	16	11	1,100	90
Copper	267 #	455 #	36 #	30 #	#	1,000	18	12	2.9	2.9
Lead	5,770 #	2,530 #	249 #	193 #	#	50	82	3.2	140	5.6
Nickel	61 #	55 #	13 #	11 #	#	< 100 >	1,400	160	75	8.3
Silver	1 #	4 #	3 #	4 #	#	50	4.1	0.12	2.3	
Zinc	2,670 #	2,620 #	425 #	382 #	#	5,000	120	110	95	86
Silicon	25,800	45,000	11,600	7,110						
Nitrate Nitrogen	2380	992	372	172		10,000				
Ammonia Nitrogen	140	278	161	226						
Chemical Oxygen Demand	9,845 (00)	5,550,000	2,130,000	1,830,000						
Sulfate	24,400	19,000	13,500	10,400		250,000				
Chloride	26,500	19,800	24,800	20,200		250,000				
Orthophosphate	1,120	2,210	469	439						
Oil & Grease	4,763,000	11,596,000								
Methylene Chloride	480	76	100	160		< 5 >				
Toluene	93	73	360	370		2,000			6,300	5,000
Benzene	110	130	250	210		5			5,100	700
Acetone	110,000	95,000	67,000	62,000						
Ethylbenzene			64	81		700	32,000		430	
2-Hexanone	1,300	860	890	1,600						
T-Xylene	70	123	470	470		10,000				0
Phenanthrene	63,000	24,000	170	130						
Benzyl Alcohol			920	1,800						
2-Methylnaphthalene	140,000	100,000								
Total DDT		11 #	48 #	24 #			1.1	0.001	0.13	0.001
Endosulfan II		3.3 #					0.22	0.056	0.34	0.87
Total Organic Carbon				768,000						
Heptachlor Epoxide				0.14		0.2				

LEGEND  
# EXCEED WATER QUALITY  
< > PROPOSED MCL  
BLANK CELL NO DATA/CRITERIA  
EXCEEDS MCL

NOTE: ALL DATA/CRITERIA IN ug/L



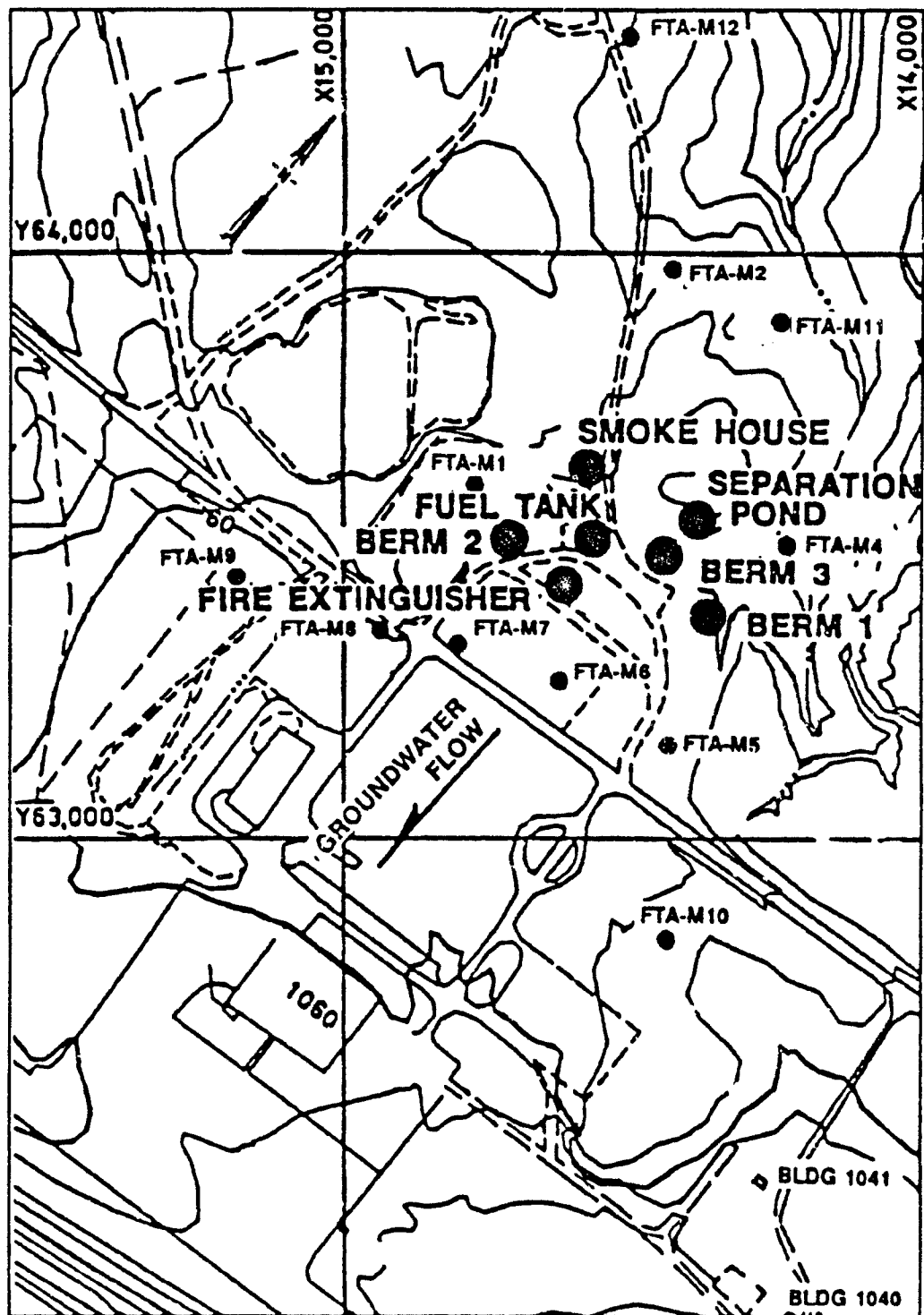


Figure 31. AFTA site map.

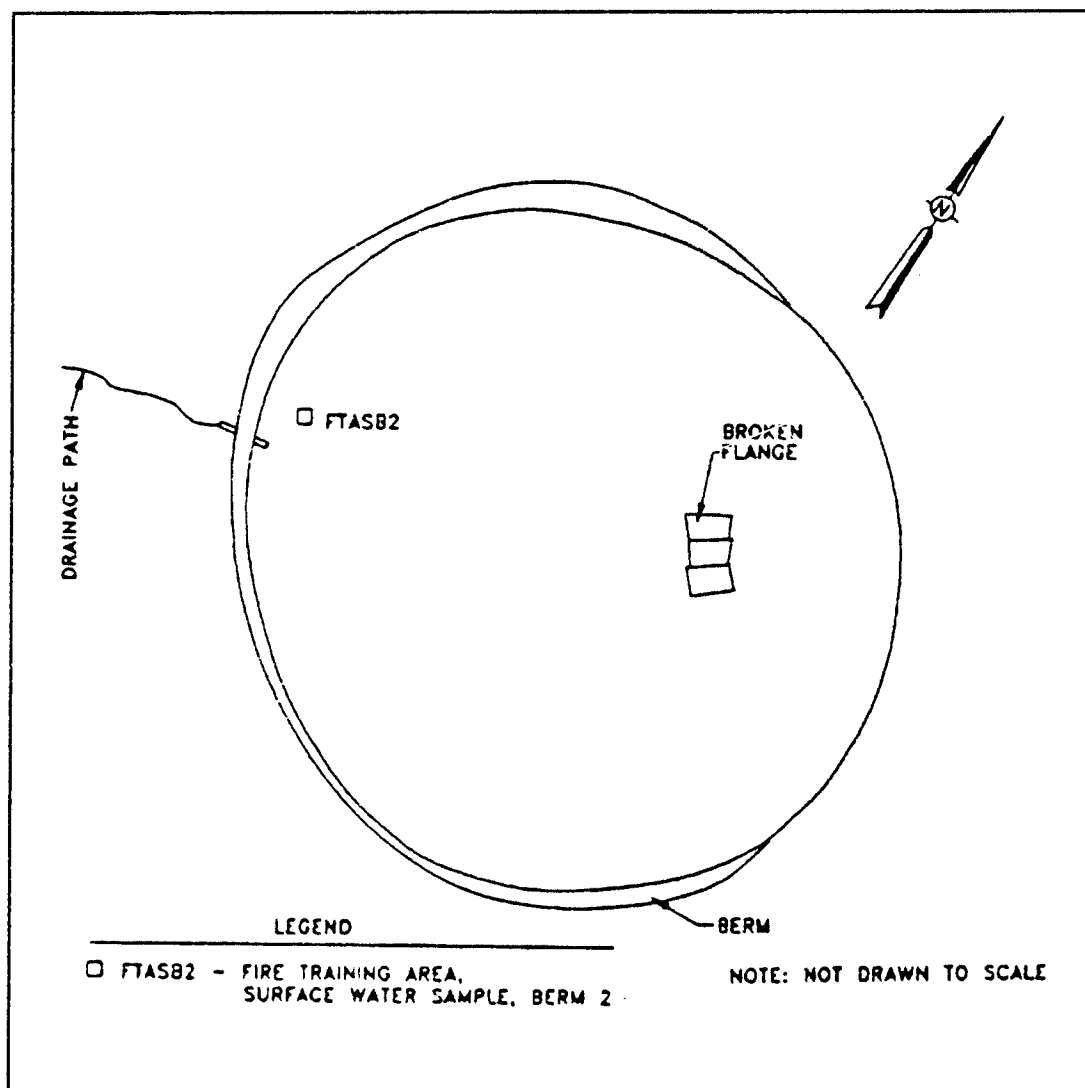


Figure 32. Surface water sample location in Berm 2.

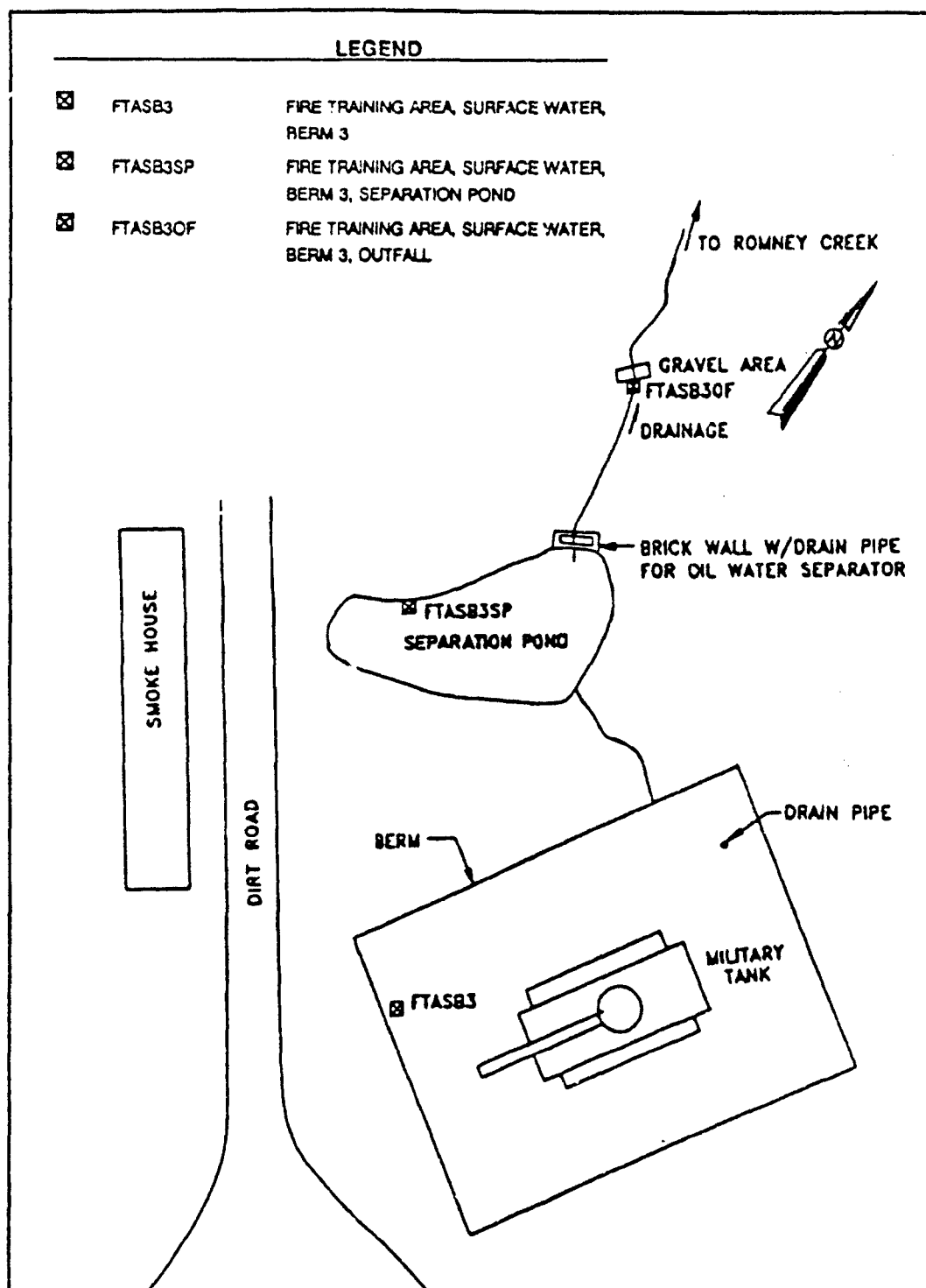


Figure 33. Surface water sample locations in Berm 3, its drainage path, the separation pond, and the outfall area

lead, nickel, silver, zinc, total DDT, and Endosulfan II in FTASB3 exceed the water quality criteria. Cadmium was detected at 30.5 ug/L. This concentration exceeds the MCL and the water quality criteria, except for the marine acute criteria. Lead (2530 ug/L) exceeds the MCL and water quality criteria. The concentrations of copper (455 ug/L) and zinc (2620 ug/L) do not exceed the MCL, but they do exceed all water quality criteria established for aquatic life protection. Chromium was detected at 54 ug/L, which exceeds the acute and chronic freshwater aquatic life criteria.

The oil and grease concentration in Berm 3 was 11,596,000 ug/L. As noted above, surface waters are to be free of oils, both petroleum and non-petroleum, animal and vegetable.

The concentration of benzene, 130 ug/L exceeds the MCL for this compound. Concentrations of toluene and total xylenes are 73 ug/L and 123 ug/L, respectively. These concentrations, including benzene, do not exceed any water quality criteria. Concentrations of other components of fuel are 24,000 ug/L of phenanthrene and 100,000 ug/L of 2-methylnaphthalene. Solvents detected in FTASB3 are methylene chloride, acetone and 2-hexanone. Methylene chloride was detected at 76 ug/L; acetone, 95,000 ug/L, and 2-hexanone, 860 ug/L. Both methylene chloride and acetone are common solvents used in the laboratory for cleaning.

The total DDT and Endosulfan II detected in FTASB3 were 11 ug/L and 3.3 ug/L, respectively. MCLs have not been established for these pesticides. The total DDT and Endosulfan II exceed the water quality criteria.

The concentrations of cadmium and lead in the water samples collected from the areas adjacent to Berm 3, FTASB3SP and FTASB3OF, exceed the MCLs and water quality criteria. The concentration of lead in FTASB3SP (249 ug/L) and FTAB3OF (193 ug/L) exceed the MCLs and the fresh and marine water quality criteria. The concentration of cadmium in FTASB3SP (6.6 ug/L) and FTASB3OF (6.2 ug/L) exceed the MCLs, but only exceed the acute fresh water quality criteria (3.9 ug/L).

The components of fuel detected in these samples are benzene, toluene, total xylenes, ethylbenzene and phenanthrene. Concentrations of benzene in FTASB3SP (200 ug/L) and FTASB3OF (210 ug/L) exceed the MCL (5 ug/L). No water quality criteria for fuel components were exceeded.

Solvents detected in FTASB3SP and FTASB3OF include methylene chloride (100 and 160 ug/L, respectively), 2-hexanone (890 and 1600 ug/L, respectively), acetone (67,000 and 62,000 ug/L, respectively) and benzyl alcohol (920 and 1800 ug/L, respectively). Methyl chloride exceeds the MCL of 5 ug/L. Methylene chloride and acetone are common solvents used in the laboratory.

### Soil Gas Survey

A soil gas survey was conducted from March to July 1989 with a final report (Appendix J) being submitted in August 1989 by the U.S. Army Corps of Engineers, Baltimore District (Stefano, J. E., 1989). A grid of 9 rows and 9 columns (81 points) was used to cover an 800-foot by 800-foot area that centers on Berms 2 and 3 where the majority of the exercises took place (Figure 34). Samples were collected at four different depths at six sample points in the center of the area to determine the depth that would be the best representative depth of contamination. Samples were drawn from depths of 3 feet, 5 feet, 7 feet and 9 feet at each point. The maximum contamination was detected at a depth of 5 feet, which was then used as the depth of the survey. After completion of the 81-point grid, additional sample points were added in areas where contaminants had been identified. A total of 176 points were sampled.

The sampling procedure involved driving stainless steel tubing, with a stainless steel carriage bolt in the tip, into the ground. After the tubing was at the desired sample depth, it was pulled back approximately 4 inches, allowing the carriage bolt to drop out of the tip, exposing the probe to a small void in the soil. A stainless steel sampling manifold was then attached to the surface end of the probe. The sampling manifold has a nipple for attaching a vacuum line on one side and a septum port on the opposite. The vacuum pump was attached to the sampling manifold and the system was pumped 3 to 5 minutes. The volume of subsurface vapors being collected was monitored using a valve and vacuum gage within the system. The sample was then collected through the septum port using a gas tight syringe. A Photovac 10S70 Gas Chromatograph (GC) was used on site to analyze the samples. The vapor standard used to calibrate the Photovac was a blend containing seven compounds including benzene, toluene and o-xylene.

QA/QC required that sampling probes be steam cleaned after every use and after every six samples the entire system be disassembled and steam cleaned. The teflon tubing used to attach the vacuum pump was changed periodically or whenever signs of visible contamination was observed.

Results of the soil gas survey showed concentrations of benzene ranging from undetected to 6.85 ppm. Toluene concentrations ranged from <0.01 ppm to 7.55 ppm and o-xylene concentrations ranged from undetected ppm to 0.85 ppm (USACE, 1989). The total concentrations of benzene, toluene and o-xylene are shown in Figure 35. The total number of ionizables that were detected are shown in Figure 36. Ionizables are those compounds detected by the Photovac 10S70 Gas Chromatograph but not defined and quantified.

The higher levels of soil vapor contaminants were adjacent to the burn pits and to the south-

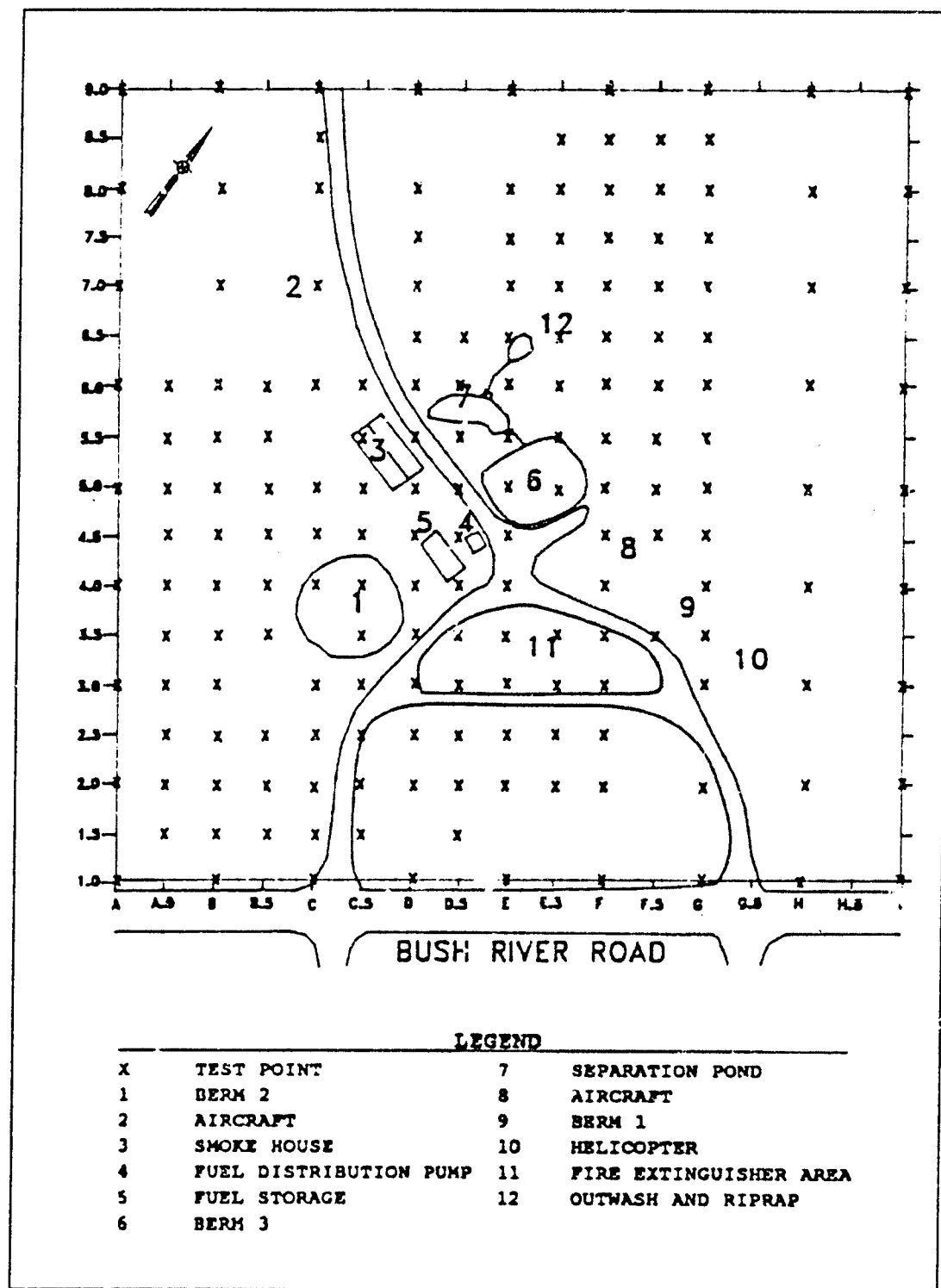


Figure 34. Grid for soil gas survey.

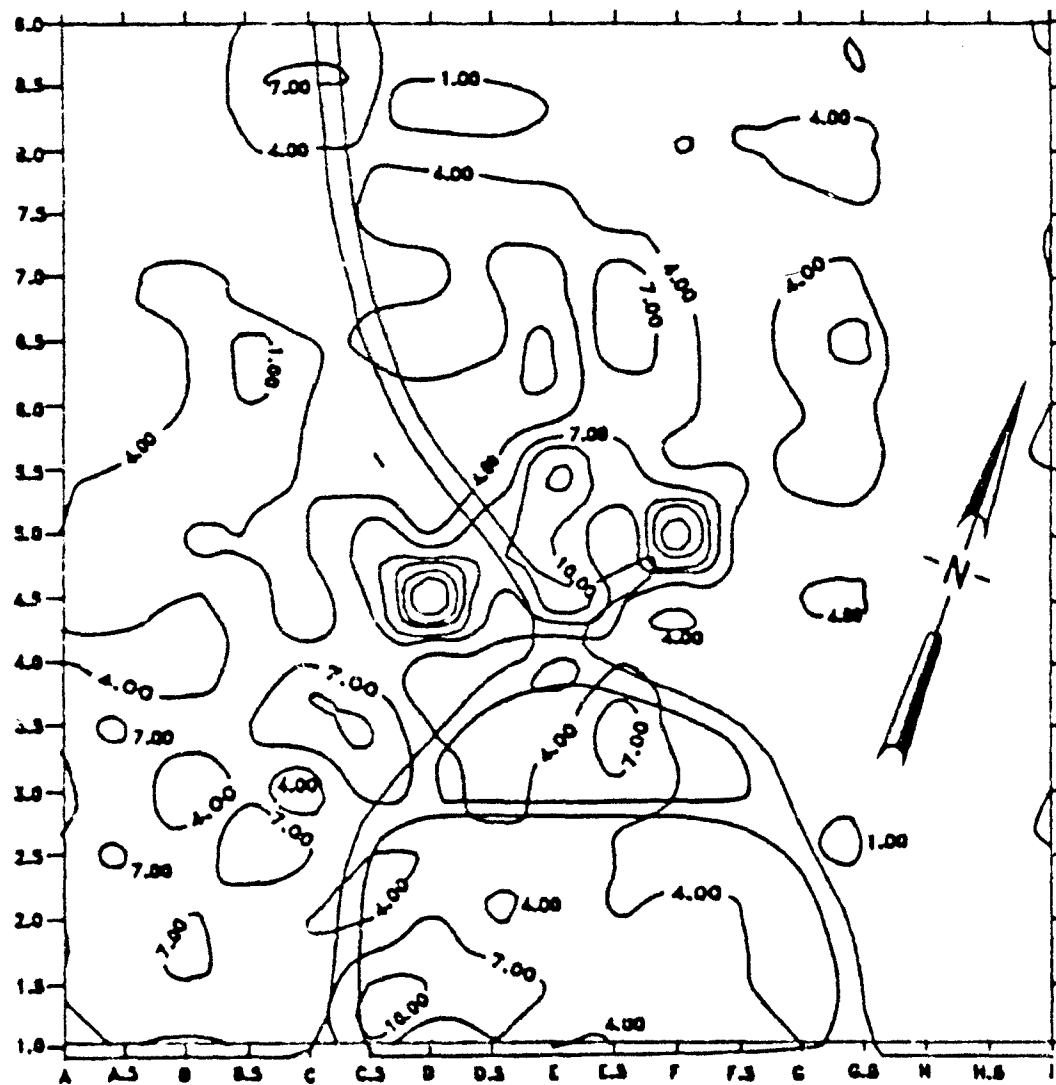


Figure 35. Total benzene, toluene and o-xylene (BTX) in mg/L passing the detector. Grid columns and rows are labeled.

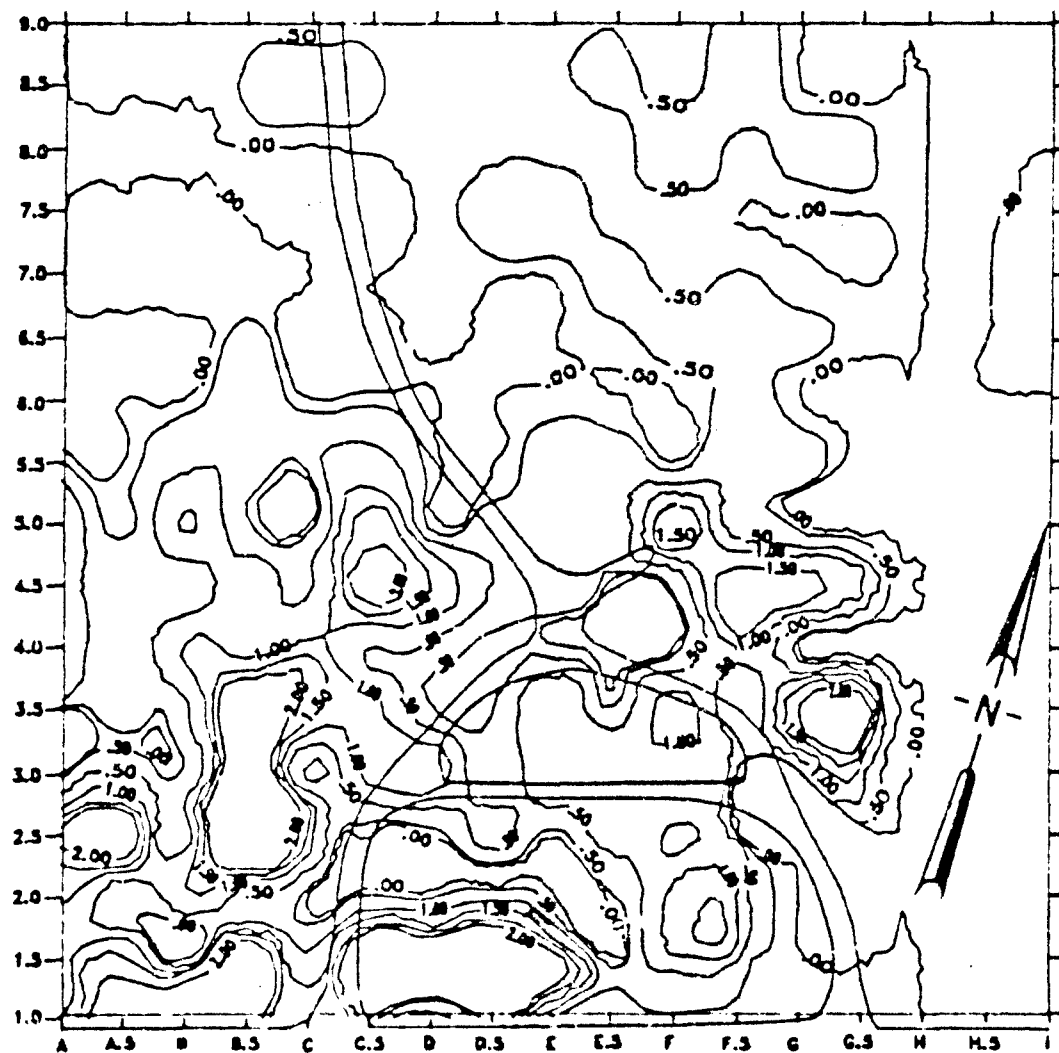


Figure 36. Total ionizables in mg/L passing the detector. Grid columns and rows are labeled.



southeast between the pits and Bush River Road. "Changes in the amount of soil moisture and ambient temperature over the duration of the field work may have affected the results" (USACE, 1989). Contaminants appear to be moving in a southern direction with the regional groundwater flow; however the vertical profiling did not show an increase with depth, that is expected with contaminant movement with groundwater. "This indicates that site geology has the most significant influence on the movement of contaminants at this site" (USACE, 1989).

### Soil Samples

At this time no standards exist for maximum allowable concentrations of contaminants in soils; each site is typically reviewed on a site-by-site basis. Guidelines used in this report are from several different sources. Guidelines for metals and natural elements are the values given as the upper range for the elements naturally occurring in soil (Shields, 1990). Guidelines for organic constituents detected are the new toxicity characteristic (TC) regulations (Environmental Reporter, 1990). This value characterizes wastes based on its toxicity. The guideline for PCBs is a 10 ppm action level issued to APG under the Toxic Substance Control Act (TSCA). The guideline for total DDT is 1 ppm as issued by the State of Maryland in 1980 for the DDT spill site near Building 450.

Twenty-one surficial soil samples were collected from the site for this study. Analysis of the soil samples (Table 8 and Appendix K) indicates the presence of metals, hydrocarbons, and volatile organic compounds.

#### Berm 1

There are no visible signs of ground surface contamination in this berm. Two soil samples, FTAB11 and FTAB12, were collected from Berm 1 (Figure 37). Both samples contained methylene chloride at 0.042 mg/Kg and 0.038 mg/Kg, respectively. The cadmium concentration in FTAB11 (17.30 mg/Kg) exceeds the guideline of 7.0 mg/Kg used in this report. Lead in sample FTAB11 (352.0 mg/Kg) exceeds the guideline. The zinc content of FTAB11 (299.0 mg/KG) is just under the guideline of 300 mg/Kg used for this report.

#### Berm 2

Figure 38 shows where the four soil samples were collected from the visible areas of contamination in Berm 2. No metals were detected above the guidelines used in this report. Tetrachloroethene was detected in sample FTAB24 (6.0 mg/Kg). Methylene chloride was detected in two of the samples, FTAB21 (0.15 mg/Kg) and FTAB22 (0.069 mg/Kg). Methylene chloride is an industrial solvent with many uses and may have been introduced in the laboratory. Total xylenes

Table 8 (continued)  
Parameters detected in the soil samples at the AFPA (page 1 of 3)

PARAMETER	SOIL SAMPLE ID with data in mg/KG							GUIDELINE (mg/Kg)
	FTAB11	FTAB12	FTAB21	FTAB22	FTAB23	FTAB24	FTAB2DD1	
Arsenic	6	4.49	3.09	2.49	3.1	5.39	4.69	40
Beryllium	1.4	1.3	1.2	11	1	1.8	1.4	40
Cadmium	17.3 #	6.49	0.629	0.699	0.76	0.329	0.788	7
Chromium	28	23	16.7	17.7	15.8	24.5	16.4	3000
Copper	74.4	38.2	13.1	13.1	10.5	12.1	14.1	100
Lead	352 #	126	96.5	165	96.3	34.8	109	200
Mercury	—	—	—	—	—	—	—	0.8
Nickel	26.7	16.6	10.6	11.5	8.3	13.7	9.58	1000
Silver	0.2	—	0.299	—	—	—	—	5
Zinc	299	138	64.7	71	53.6	35.1	64.3	300
Silicon	25.8	25.9	31.8	24.9	31	43.3	23.9	—
Methylene Chloride	0.042	0.038	0.15	0.069	—	—	—	—
Total DDT	0.0352	0.0153	—	0.0232	—	—	0.0007	1
PCB-1248	—	0.003	—	—	—	—	—	10
PCB-1260	0.34	0.34	—	0.28	—	—	0.1	10
Heptachlor	—	0.001	—	—	—	—	—	—
Phenanthrene	—	—	2	—	—	—	—	—
T-Xylene	—	—	—	—	33	90	—	—
Trichloroethene	—	—	—	—	—	—	—	—
Tetrachloroethene	—	—	—	—	—	6.0 #	—	0.7
Toluene	—	—	—	—	—	27	—	—
Benzene	—	—	—	—	—	—	—	—
Pyrene	—	—	—	—	—	—	—	—
Acetone	—	—	—	—	—	—	—	—
Ethylbenzene	—	—	—	—	—	20	—	—
a-BHC	—	—	—	—	—	—	—	—
b-BHC	—	—	—	—	—	—	—	—
d-BHC	—	—	—	—	0.0093	—	—	—
g-BHC	—	—	—	—	—	—	—	—
Fluorene	—	—	—	—	—	—	—	—
Chrysene	—	—	—	—	—	—	—	—
Benzo(b)fluoranthene	—	—	—	—	—	—	—	—
Benzo(a)pyrene	—	—	—	—	—	—	—	—
2-Methylnaphthalene	—	—	—	—	—	—	—	—
Fluoranthene	—	—	—	—	—	—	—	—
Dibutylphthalate	—	—	—	—	—	—	—	—
Bis(2-ethylhexyl)phthalate	—	—	—	—	—	—	—	—
Di-n-octylphthalate	—	—	—	—	—	—	—	—
Endrin	—	—	—	—	—	—	—	—
Endosulfan II	—	—	—	—	—	—	—	—
Aldrin	—	—	—	—	—	—	—	—
— Below Detection Limit      — indicates Guideline not available      # exceeds Guideline								

Table 8 (continued)  
Parameters detected in soil samples at the AFTA (page 2 of 3)

PARAMETER	SOIL SAMPLE ID with data in mg/KG							GUIDELINE (mg/Kg)
	FTAB2DD2	FTAB31	FTAB32	FTAB33	FTAB34	FTAAAB3DD	FTAB3SP1	
Arsenic	4.9	2.39	1.9	3.4	1.9	2.2	3.09	40
Beryllium	1.2	0.798	0.7	1	0.899	0.999	1.3	40
Cadmium	4.7	2	0.84	0.4	4.49	3.26	1.27	7
Chromium	32	28.7	16.2	16.4	33.1	27.9	31.1	3000
Copper	25	36.4	11	9.2	74.4	30.9	17.1	100
Lead	136	277	254	51.1	503 #	237 #	192	200
Mercury	0.652	—	—	—	—	—	—	0.8
Nickel	41.8	19	8.9	9.2	18.2	12.5	10.4	1000
Silver	0.1	0.1	0.6	0.9	4.19	4.5	0.1	5
Zinc	128	409 #	92.7	54.1	648 #	140	103	300
Silicon	34.9	28.1	26.5	26.9	22.1	28.8	27.6	—
Methylene Chloride	0.42	0.35	0.11	—	5.2	14	0.059	—
Total DDT	0.231	0.58	0.273	0.29	0.03	1.495 #	0.58	1
PCB-1248	—	—	—	—	—	17	—	10
PCB-1260	0.32	4.3	0.94	0.57	—	—	—	10
Heptachlor	—	—	—	—	—	—	—	—
Phenanthrene	—	—	—	—	63	—	—	—
T-Xylene	—	—	—	51	4.8	25	—	—
Trichloroethene	—	—	—	—	3.5	—	—	—
Tetrachloroethene	—	0.28	—	—	3.8 #	—	—	0.7
Toluene	—	—	—	18	5.7	—	—	—
Benzene	—	—	—	—	1.7	—	—	—
Pyrene	—	—	—	—	6.2	—	—	—
Acetone	—	—	—	—	—	—	1.8	—
Ethylbenzene	—	—	—	7	4.8	8.2	—	—
a-BHC	0.0005	—	—	—	—	—	—	—
b-BHC	—	—	—	—	—	—	0.0047	—
d-BHC	—	—	—	—	—	—	—	—
g-BHC	—	—	0.005	10.0048	—	—	0.0034	—
Fluorene	—	—	—	—	17	—	—	—
Chrysene	—	—	—	—	11	—	—	—
Benzo(b)fluoranthene	—	—	—	—	10	—	—	—
Benzo(a)pyrene	—	—	—	—	6	—	—	—
2-Methylnaphthalene	—	—	—	—	39	—	—	—
Fluorethane	—	—	—	—	—	—	—	—
Dibutylphthalate	—	—	—	—	—	—	—	—
Bis(2-ethylhexyl)phthalate	—	—	—	—	—	—	—	—
Di-n-octylphthalate	—	—	—	—	—	—	—	—
Endrin	—	—	—	—	—	—	—	—
Endosulfan II	—	—	0.034	—	—	—	—	—
Aldrin	—	—	—	0.0009	—	—	—	—
— Below Detection Limit      — indicates Guideline not available      # exceeds Guideline								

Table 8 (concluded)  
Parameters detected in soil samples at the AFTA (page 3 of 3)

PARAMETER	SOIL SAMPLE ID with data in mg/KG							GUIDELINE (mg/Kg)
	FTAB3SP2	FTAB3OF	FTASH1	FTASH2	FTASH3	PTAFE1	PTAFE2	
Arsenic	2.4	2.1	1.9	0.299	2.8	10.2	3.59	40
Beryllium	0.898	0.799	0.698	—	1.3	1.3	0.799	40
Cadmium	1.33	3.31	0.768	1.23	0.27	5.94	7.81 #	7
Chromium	21.4	6.29	11	6.69	14.4	69	26.1	3000
Copper	17.9	13.4	6.18	52.5	9.48	32.8	28.6	100
Lead	269.0 #	18	32.2	15	59.7	301.0 #	244.0 #	200
Mercury	—	—	—	—	—	—	0.804 #	0.8
Nickel	9.48	5.69	10.7	7.59	13.3	352	21.6	1000
Silver	0.1	0.1	—	—	0.2	1.5	25.5 #	5
Zinc	123	21.9	146	136	140	381.0 #	234	300
Silicon	39.6	19.4	23.2	34.2	26.8	18.3	35.4	—
Methylene Chloride	0.06	—	0.55	0.1	—	0.076	0.059	—
Total DDT	0.588	0.0019	0.004	0.0053	0.024	0.19	0.183	1
PCB-1248	—	—	—	—	—	—	—	10
PCB-1260	—	—	—	—	—	0.38	0.079	10
Heptachlor	—	0.005	—	—	—	—	0.0014	—
Phenanthrene	—	—	0.06	—	—	—	—	—
T-Xylene	—	—	—	—	—	—	—	—
Trichloroethene	—	—	—	—	—	—	—	—
Tetrachloroethene	—	—	—	—	—	—	—	0.7
Toluene	—	—	—	—	—	—	—	—
Benzene	—	—	—	—	—	—	—	—
Pyrene	—	—	0.32	—	—	—	—	—
Acetone	1.2	2.9	1.1	—	—	—	—	—
Ethylbenzene	—	—	—	—	—	—	—	—
a-BHC	—	—	—	—	—	0.0005	—	—
b-BHC	—	—	—	—	0.0054	—	—	—
d-BHC	—	—	—	—	—	—	—	—
g-BHC	—	—	0.0014	—	—	—	—	—
Fluorene	—	—	—	—	—	—	—	—
Chrysene	—	—	0.09	—	—	—	—	—
Benzo(h)fluoranthene	—	—	0.56	—	—	—	—	—
Benzo(a)pyrene	—	0.09	0.4	—	—	—	—	—
2-Methylnaphthalene	—	0.08	0.04	—	—	—	—	—
Fluoranthene	—	—	0.54	—	—	—	—	—
Dibutylphthalate	—	—	0.24	0.41	—	—	—	—
Bis(2-ethylhexyl)phthalate	—	—	0.37	0.69	—	—	—	—
Di-n-octylphthalate	—	—	0.2	—	—	—	—	—
Endrin	—	—	—	—	—	0.083	—	—
Endosulfan II	—	—	—	—	—	—	—	—
Aldrin	—	—	—	—	—	0.0009	—	—
— Below Detection Limit      - indicates Guideline not available      # exceeds Guideline								

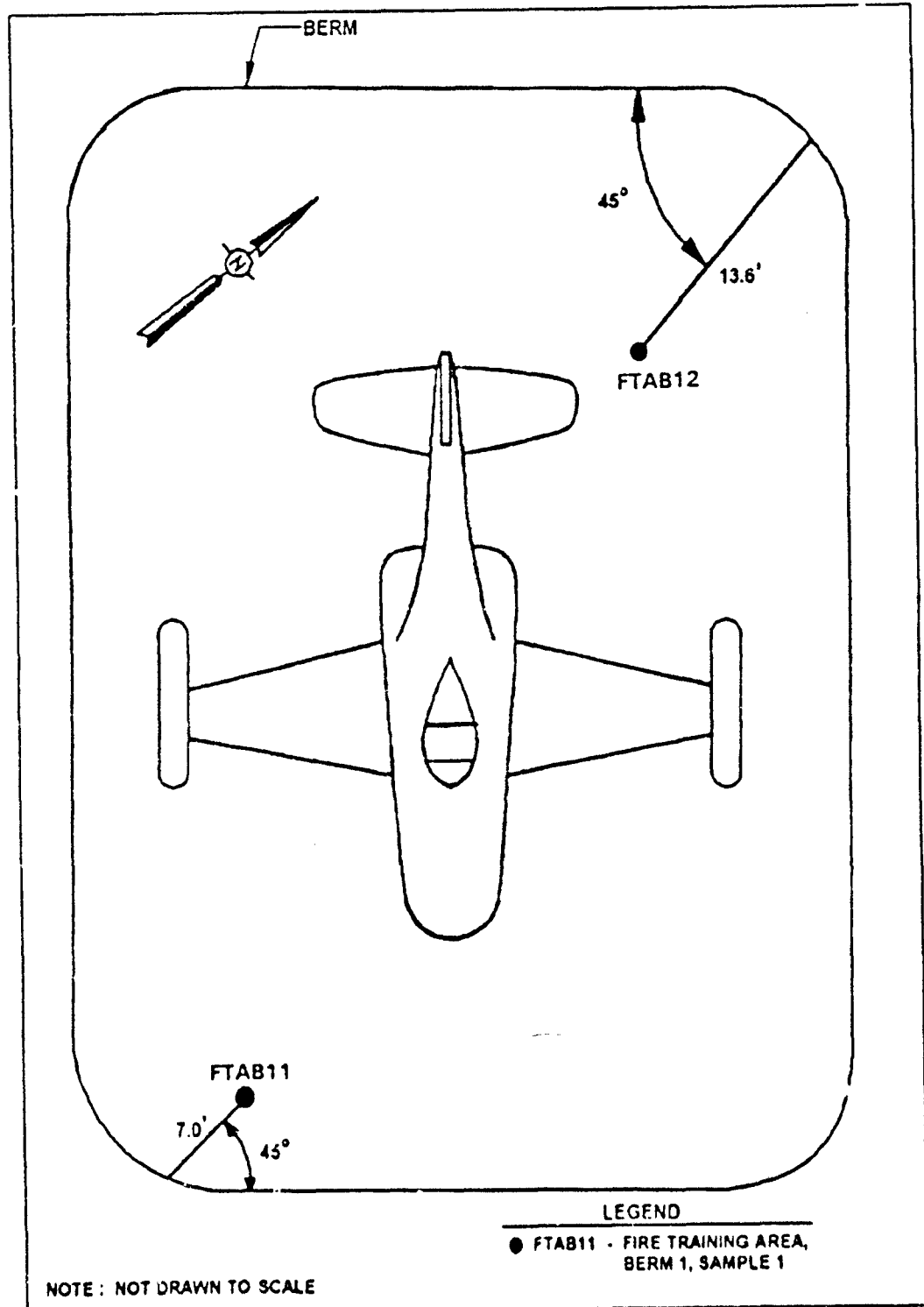


Figure 37. Soil sample locations in Berm I.

were detected in FTAB23 and FTAB24 at 33.0 mg/Kg and 90.0 mg/Kg, respectively. Toluene (27.0 mg/Kg) and ethylbenzene (20.0 mg/Kg) were detected in FTAB24. Phenanthrene, a breakdown component of fuel, was detected in FTAB21 at 2.0 mg/Kg.

Two samples, FTAB2DD1 and FTAB2DD2, were collected along the drainage path (Figure 38) that leads from Berm 2. Methylene chloride was detected in FTAB2DD2 at 0.42 mg/Kg. No other organic compounds were detected. The metals detected in both samples were below guidelines.

### Berm 3

Four soil samples were collected from Berm 3 (Figure 39). Lead was detected in three samples, FTAB31 (277.0 mg/Kg), FTAB32 (254.0 mg/Kg), and FTAB34 (503.0 mg/Kg), above the 200 mg/Kg guideline. The zinc content in FTAB31 (409.0 mg/Kg) and FTAB34 (648.0 mg/Kg) exceed the natural soil guideline of 300 mg/Kg. Purgable organic compounds detected include: methylene chloride, tetrachloroethene and trichloroethene. Methylene chloride was detected in three samples, FTAB31 (0.35 mg/Kg), FTAB32 (0.11 mg/Kg) and FTAB34 (5.2 mg/Kg). Trichloroethene (TCE) was detected in FTAB34 at 3.5 mg/Kg. Tetrachloroethene was detected in two of the samples, FTAB31 (0.28 mg/Kg) and FTAB34 (3.8 mg/Kg), the latter exceeding guidelines.

Parameters detected in the samples that are associated with fuel contamination include: benzene, toluene, xylene, ethylbenzene, benzo(b)fluoranthene, benzo(a)pyrene, phenanthrene and 2-methylnaphthalene. These compounds were detected in two samples, FTAB33 and FTAB34. These two samples are from the low area of the berm that collects the water before it moves into the separation pond. Total xylenes in samples FTAB33 and FTAB34 were 51.0 mg/Kg and 4.8 mg/Kg, respectively, and toluene were 18.0 mg/Kg and 5.7 mg/Kg, respectively. Ethylbenzene was detected in FTAB33 and FTAB34 at 7.0 mg/Kg and 4.8 mg/Kg, respectively. Benzene (1.7 mg/Kg), phenanthrene (63.0 mg/Kg), benzo(a)fluoranthene (10.0 mg/Kg), benzo(a)pyrene (6.0 mg/Kg), and 2-methylnaphthalene (39.0 mg/Kg) were detected only in FTAB34.

One sample, FTAB3DD, was collected from the drainage path between Berm 3 and the separation pond (Figure 39). The lead (237.0 mg/Kg), total DDT (1.497 mg/Kg) and PCB-1248 (17.0 mg/Kg) were above the guideline of 200.0 mg/Kg, 1.0 mg/Kg and 10 mg/Kg, respectively. Methylene chloride was detected at 14.0 mg/Kg. Total xylenes (25 mg/Kg), toluene (17.0 mg/Kg) and ethylbenzene (8.2 mg/Kg) were also detected in FTAB3DD.

Two samples (FTAB3SP1 and FTAB3SP2) were collected from the separation pond (Figure 39). The lead content in FTAB3SP2 (269 mg/Kg) exceeded the guideline of 200 mg/Kg and FTAB3SP1 contained 192 mg/Kg of lead. Methylene chloride (0.06 mg/Kg in both samples) and acetone (1.8 mg/Kg and 1.2 mg/Kg) were detected in FTAB3SP1 and FTAB3SP2, respectively.

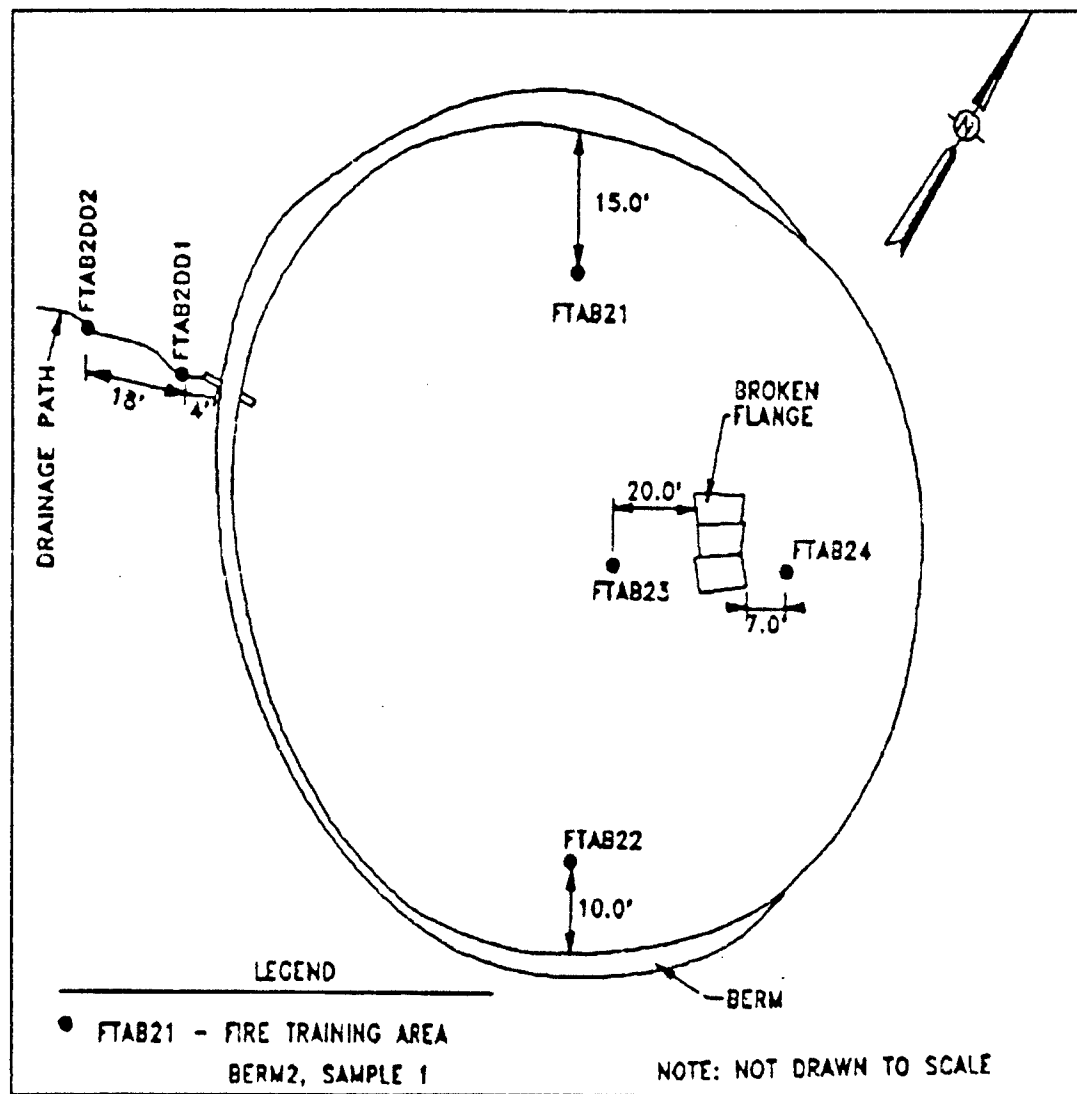


Figure 38. Soil sample locations in Berm 2 and its drainage path.

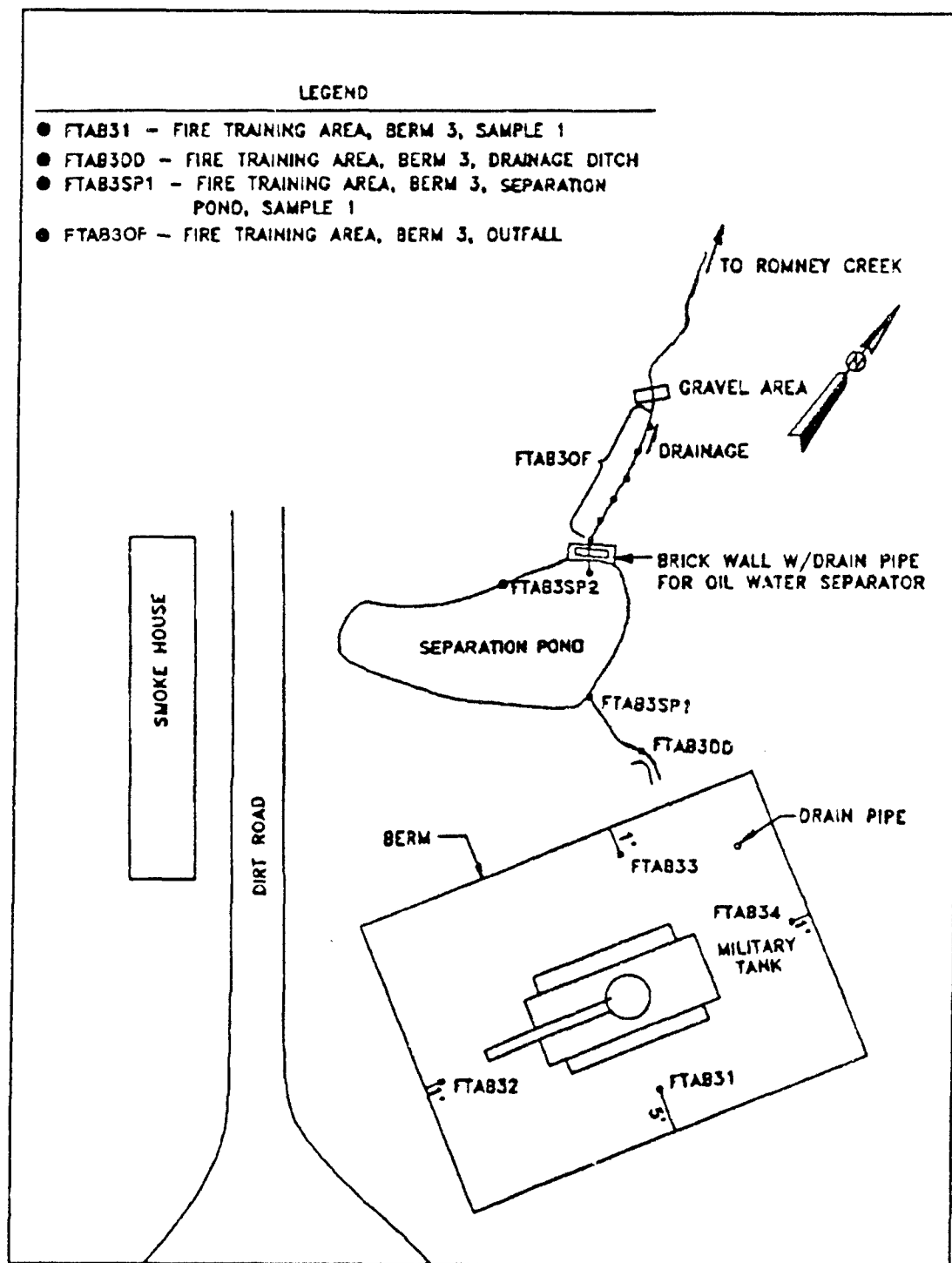


Figure 39. Soil sample locations in Berm 3, its drainage path, the separation pond and the outfall area.



A composite sample, FTAB3OF, was collected along the creek leading out of the separation pond to Romney Creek (Figure 39). Acetone (2.9 mg/Kg), benzo(a)pyrene (0.09 mg/Kg) and 2-methylnaphthalene (0.08 mg/Kg) were detected in the sediments. Benzo(a)pyrene and 2-methylnaphthalene are breakdown components of fuel.

#### Old Smoke House

Figure 40 shows the location of composite sample FTASH2 which was collected from inside the Old Smoke House and composite samples FTASH1 and FTASH3 which were collected outside the Old Smoke House. No metals or organics were detected above the guidelines used for this report. Organics detected included: methylene chloride, phenanthrene, fluoranthene, chrysene, benzo(b)fluoranthene, benzo(a)pyrene, 2-methylnaphthalene, acetone, dibutylphthalate, bis(2-ethylhexyl)phthalate, di-n-octylphthalate.

Methylene chloride was detected in FTASH1 (0.55 mg/Kg) and FTASH2 (0.1 mg/Kg). Other compounds detected in FTASH1 and FTASH2 were dibutylphthalate (0.24 mg/Kg and 0.41 mg/Kg, respectively), and bis(2-ethylhexyl)phthalate (0.37 mg/Kg and 0.69 mg/Kg, respectively). Di-n-octylphthalate and acetone were detected in FTASH1 at 0.2 mg/Kg and 1.1 mg/Kg. The phthalates are common laboratory contaminants. Methylene chloride and acetone are common industrial solvents with many uses and may have been introduced in the laboratory. Other organic compounds detected in FTASH1 are breakdown components of fuels or petroleum products.

#### Fire Extinguisher Practice Area

Two samples (FTAPE1 and FTAPE2) were collected from the Fire Extinguisher Practice area (Figure 41). Lead, zinc, cadmium, mercury and silver exceeded the guideline at the Fire Extinguisher area. The concentrations detected which exceeded guidelines in the 2 samples are listed below in mg/Kg:

<u>PARAMETER</u>	<u>FTAPE1</u>	<u>FTAPE2</u>	<u>GUIDELINE</u>
Lead	301	244	200
Zinc	381	234	300
Cadmium	5.94	7.81	7
Mercury	---	0.804	0.8
Silver	1.5	25.5	5

Methylene chloride was detected in FTAPE1 and FTAPE2 (0.076 mg/Kg and 0.059 mg/Kg, respectively).

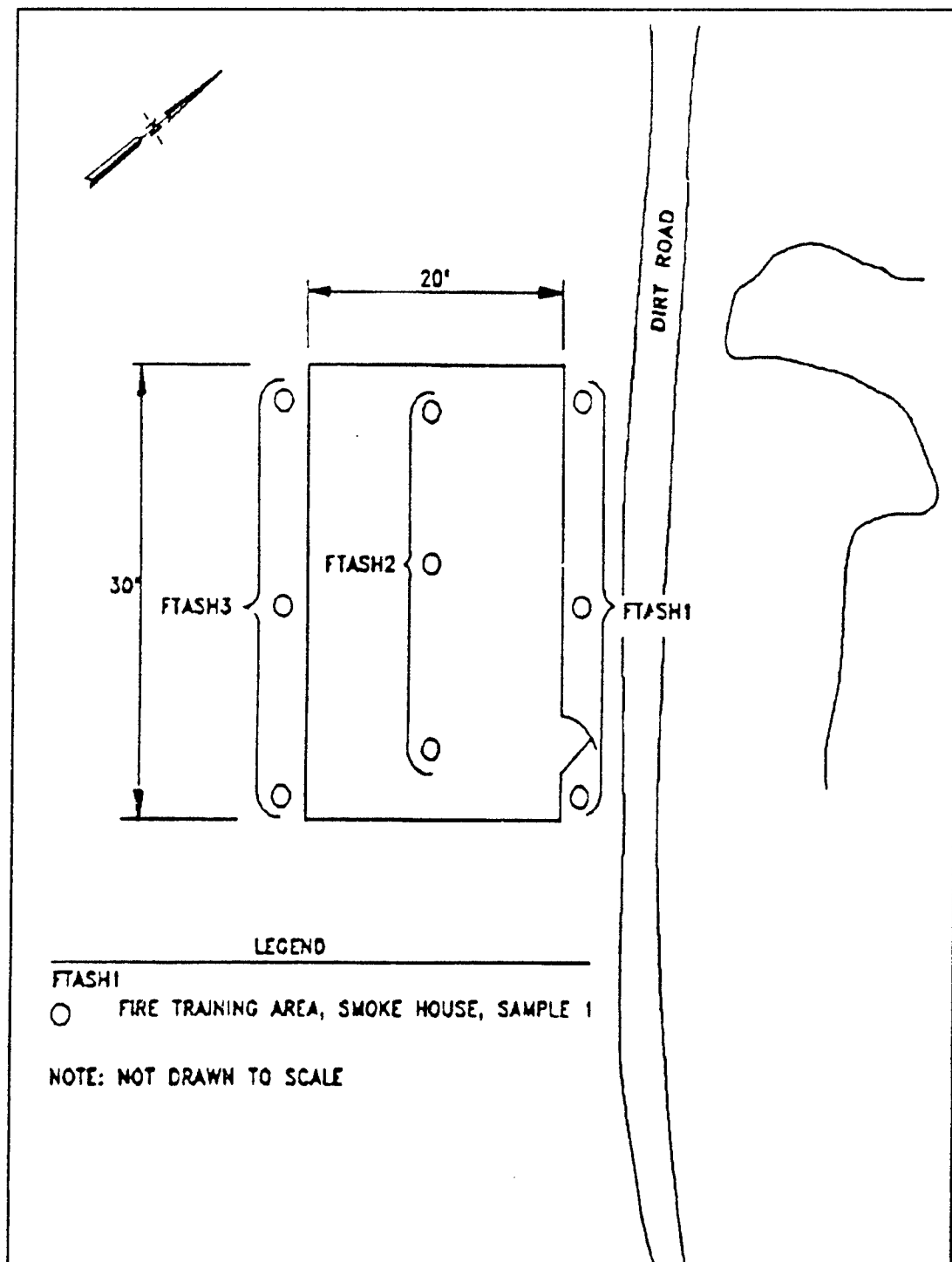


Figure 40. Soil sample locations at the Old Smoke House.

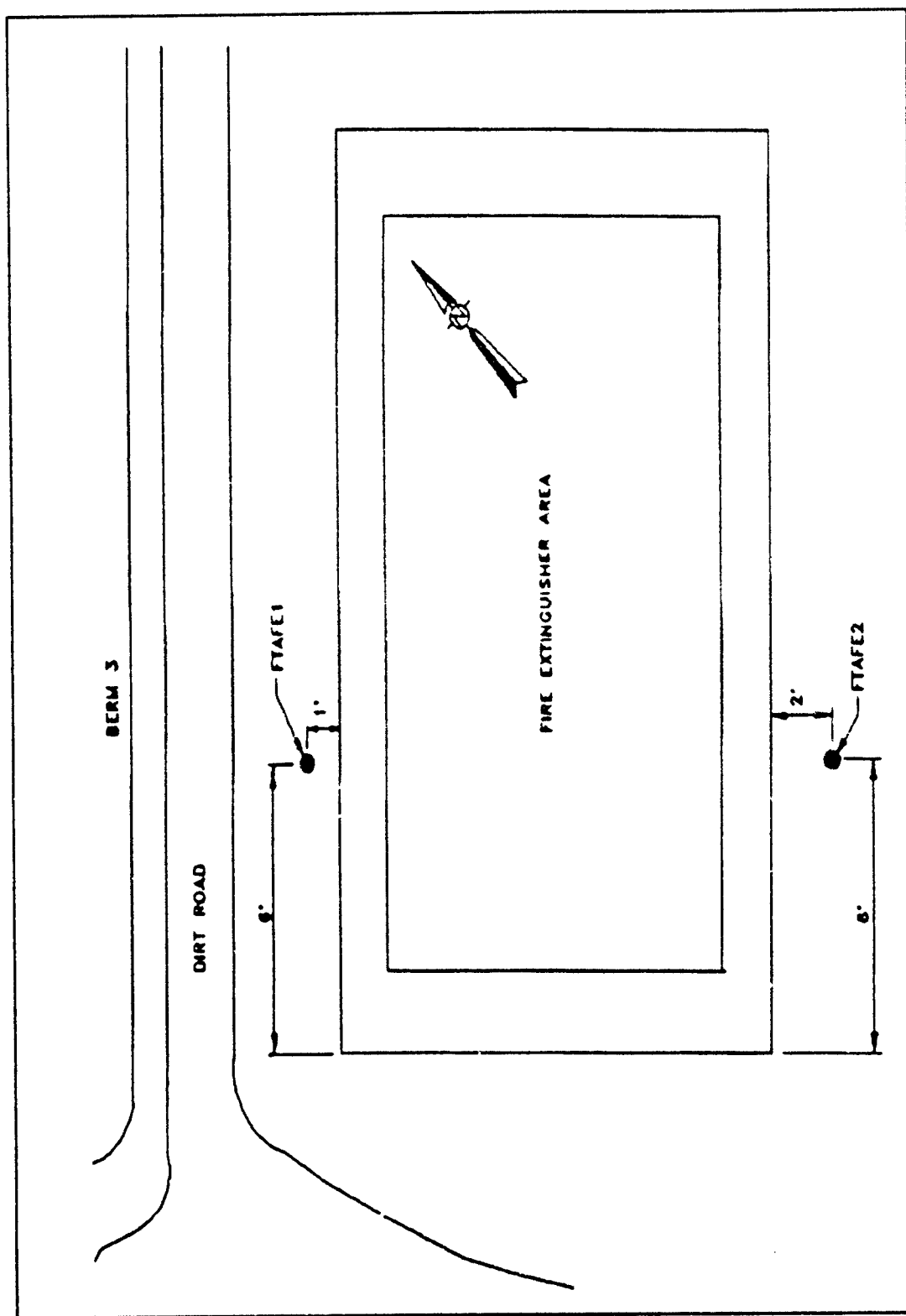


Figure 41. Soil sample locations at the Fire Extinguisher area.

### Underground Storage Tank

A sample of the contents of the underground storage tank (UST) was collected and analyzed. The sample separated into two distinct phases (water and oil) in the sample bottles. The two phases were separated in the laboratory and analyzed (Appendix L). A phase from the oil/water contact was also analyzed (Table 9). The sample contained a mixture of hydrocarbons with carbon chains ranging from C9 to C25 and low volatiles with carbon chains less than C9. The contents were identified as an aged diesel fuel or gasoline. Table 9 shows the parameters and their toxicity characteristic. As previously noted the UST was removed in 1990. A monitoring well has been installed where the UST was removed.

### Groundwater Samples

Three rounds of samples were collected from 11 of the 12 AFTA groundwater monitor wells and 2 former standby production wells, 1040 and 1041. Well FTA-M3 was dry. Production wells 1040 and 1041 are not in use; the pumps have been removed. The samples were collected in February, May and July 1990 (Sample Rounds 1, 2 and 3, respectively). The results of these analysis are given in Appendices M, N and O. Table 10 is a summary of all the chemical parameters above the detection limit and the indicator parameters (pH, conductivity, and temperature). The guidelines listed in Table 10 are from the "Drinking Water Regulations and Health Advisories" by the Office of Drinking Water, USEPA, November 1990 (updated January 1991).

#### Background Levels for Commonly Reported Parameters

Background levels for the more commonly reported parameters were established using data from the USGS Water Resources Data Maryland and Delaware Water Year 1987 Report MD-DE-87-1 (James, et al, 1987) and Water Year 1988 Report MD-DE-88-1 (James, et al, 1988) and the Maryland Geological Survey Water Resources Data Report No. 7, 1975 (Nutter and Smigaj, 1975). The data from 11 wells screened in the Talbot Formation were used to establish the background levels (Table 11). All 11 of the background wells are located in the DE quadrangle of the Maryland Geological Survey Report No. 7 (Nutter and Smigaj, 1975) up-gradient of AA-APG (Figure 42).

Table 12 shows the comparison between the data from the 3 rounds of groundwater samples at the AFTA and the background levels. The calcium, magnesium and sodium values at the AFTA fell within the general range of background wells. No MCL or SMCL guidelines have been established for calcium, magnesium or sodium.

Table 9  
Parameters detected in UST at AFTA

SAMPLE TYPE	PARAMETER	CONCENTRATION DETECTED in ug/L	EP TOXICITY CHARACTERISTIC in ug/L
WATER LAYER	Antimony	64	--
	Cadmium	187	1000
	Chromium	62	5000
	Copper	2,660	--
	Lead	182	5000
	Mercury	0.5	200
	Nickel	491	--
	Silicon	3,630	--
	Silver	0.1	5000
	Thallium	4	--
	Zinc	5,440	--
	Orthophosphate	1,570	--
	Ammonia Nitrogen	10,700	--
	Nitrate Nitrogen	31,000	--
	Chemical Oxygen Demand	310,000,000	--
	Oil & Grease	27,430	--
	Phenol	400	--
	2-Methylphenol	2,300	--
	Benzyl Alcohol	3,000	--
	Dimethyl Phthalate	370	--
	Naphthalene	2300	--
	Phenanthrene	730	--
	2-Methylnaphthalene	6300	--
OIL LAYER	Oil & Grease	1,135,500,000	--
	Aldrin	10	--
	Heptachlor Epoxide	20	8
	Fluorene	175,000	--
	Diethylphthalate	214,000	--
	Naphthalene	1340,000	--
	Phenanthrene	338,000	--
	2-Methylnaphthalene	3470,000	--
OIL/WATER LAYER	Toluene	4,700,000	--
	Ethylbenzene	1,700,000	--
	T-Xylene	8,300,000	--
-- indicates EP Toxicity Characteristic not available			

Table 10 (continued)  
Parameters above the detection limit in groundwater samples at the AFTA in Sample Rounds  
1 (February 1990), 2 (May 1990), and 3 (July 1990) (page 1 of 5)

PARAMETER	FTA-M1 SAMPLE ROUND			FTA-M2 SAMPLE ROUND			FTA-M4 SAMPLE ROUND		
	1	2	3	1	2	3	1	2	3
Barium	NA	23.5	—	NA	34	—	NA	54.5	55
Cadmium	—	—	—	—	—	—	—	—	—
Calcium	NA	8,880	11,800	NA	2,467	4,770	NA	2,900	4,960
Chromium	—	—	—	—	—	—	—	—	26
Copper	—	—	—	—	11.2	—	—	12.2	—
Iron	NA	# 560	231	NA	# 374	—	NA	224	# 5,240
Lead	—	—	—	—	—	46	—	—	—
Magnesium	NA	2,470	2,700	NA	2,631	3,700	NA	2,320	4,030
Manganese	NA	15.5	—	NA	43	—	NA	14	# 192
Nickel	—	—	—	—	—	—	—	—	—
Potassium	NA	896	1,480	NA	518	828	NA	4,480	6,750
Selenium	—	1.6	—	—	1.7	—	—	1.1	—
Silica	NA	1,080	897	NA	*1,490	1,840	NA	2,054	4,590
Sodium	NA	8,460	9,830	NA	2,040	3,190	NA	3,484	4,390
Zinc	19.2	—	192	23.5	41.8	—	20	18.5	—
Conductivity	85	120	98	48	50	45	65	95	80
pH	# 5.26	# 5.18	# 6.01	# 4.61	# 5.30	# 4.74	# 5.94	# 5.00	# 5.99
Temperature	13.2	11.5	17.9	13	12.4	22	12	13.4	17.9
Chloride	NA	15,400	11,400	NA	—	2,040	NA	5,840	8,240
Sulfate	NA	34,600	28,100	NA	15,900	19,700	NA	6,370	19,500
TDS	NA	94,000	144,000	NA	54,000	114,000	NA	76,000	128,000
Nitrates	NA	4,200	1,460	NA	280	550	NA	1,700	2,330
Ammonia Nitrogen	NA	300	—	NA	270	—	NA	31,000	—
Oil & Grease	NA	4,000	—	NA	3,000	—	NA	4,000	—
Orthophosphate	NA	—	—	NA	—	—	NA	—	—
Phenols	—	—	—	—	—	5.3	—	—	9.2
Bis(2-ethylhexyl)phthalate	47	—	—	34	—	—	58	—	—
Tetrachloroethene	—	—	—	—	—	—	—	—	—
Toluene	—	—	—	—	—	—	—	—	—
Trichloroethene	—	—	—	—	—	—	—	—	—
1,1,1-Trichloroethane	—	—	—	—	—	—	—	—	—
1,1-Dichloroethane	—	—	—	—	—	—	—	—	—
1,1-Dichloroethene	—	—	—	—	—	—	—	—	—
1,2-Dichloroethane	—	—	—	—	—	—	—	—	—
<div style="display: flex; justify-content: space-between;"> <div> <p>above MCL</p> <p># exceeds secondary MCL</p> <p>NA not analyzed for</p> </div> <div> <p>— Below Detection Limit</p> <p>* Duplicate samples (highest value used)</p> </div> <div> <p>All data are in ug/L, except conductivity in umhos</p> <p>pH in pH units</p> <p>Temperature in °C</p> </div> </div>									

Table 10 (continued)  
Parameters above the detection limit in groundwater samples at the AFTA in Sample Rounds  
1(February 1990), 2 (May 1990), and 3 (July 1990) (page 2 of 5)

PARAMETER	FTA-M5 SAMPLE ROUND			FTA-M6 SAMPLE ROUND			FTA-M7 SAMPLE ROUND		
	1	2	3	1	2	3	1	2	3
Barium	NA	*32.2	—	NA	46.8	—	NA	28.2	34
Cadmium	—	—	—	—	—	—	—	—	—
Calcium	NA	1,847	2,680	NA	3,130	4,560	NA	1,540	2,830
Chromium	—	—	—	—	—	—	—	—	51
Copper	—	—	—	—	12.7	—	—	18	—
Iron	NA	# *313	39	NA	# 969	—	NA	# 384	# 21,400
Lead	—	—	—	—	—	—	—	—	32
Magnesium	NA	1,490	1,880	NA	2,620	3,590	NA	1,430	2,810
Manganese	NA	# *66.2	—	NA	# 213	# 228	NA	# 416	# 1,160
Nickel	32.8	*19.8	—	144	68	41	32.5	49.5	32
Potassium	NA	4,480	816	NA	1,250	1,480	NA	671	2,000
Selenium	—	—	—	—	1	—	—	—	—
Silica	NA	2,170	2,070	NA	2,340	2,820	NA	2,390	11,200
Sodium	NA	4,230	5,000	NA	4,780	6,350	NA	4,520	6,600
Zinc	7.75	*30.5	—	17.5	137	—	30.8	36.2	—
Conductivity	42	57	45	33	50	40	33	45	30
pH	# 5.73	# 4.52	# 4.97	# 4.99	# 5.22	# 5.01	# 4.77	# 4.87	# 5.15
Temperature	14	14.8	18.9	13.4	13.7	24.9	14	13.1	19.5
Chloride	NA	6,650	8,940	NA	11,100	13,340	NA	4,850	8,260
Sulfate	NA	2,240	4,350	NA	6,370	8,130	NA	1,650	2,800
TDS	NA	46,000	80,000	NA	*86,000	98,000	NA	62,000	94,000
Nitrates	NA	1,000	1,420	NA	2,360	2,080	NA	1,400	1,370
Ammonia Nitrogen	NA	300	—	NA	100	—	NA	110	—
Oil & Grease	NA	5,000	7,200	NA	6,000	—	NA	4,000	—
Orthophosphate	NA	—	—	NA	—	—	NA	320	—
Phenols	—	—	6.6	—	—	6.9	—	—	37
Bis(2-ethylhexyl)phthalate	46	—	—	56	—	—	—	—	—
Tetrachloroethene	—	—	—	—	—	—	11.7	44	*10.2
Toluene	—	—	—	—	—	—	—	—	9.7
Trichloroethene	—	—	—	223	170	162	87.5	219	*62.2
1,1,1-Trichloroethane	—	—	—	19	9.7	5.8	55.1	119	—
1,1-Dichloroethane	—	—	—	—	—	—	8.6	11.9	—
1,1-Dichloroethene	—	—	—	6	—	—	—	31.6	*6.9
1,2-Dichloroethane	—	—	—	—	—	—	—	—	—
<div style="display: flex; justify-content: space-between;"> <div> <p>above MCL</p> <p># exceeds secondary MCL</p> <p>NA not analyzed for</p> </div> <div> <p>— Below Detection Limit</p> <p>* Duplicate samples (highest value used)</p> </div> <div> <p>All data are in ug/L, except conductivity in umhos</p> <p>pH in pH units</p> <p>Temperature in °C</p> </div> </div>									

Table 10 (continued)  
Parameters above the detection limit in groundwater samples at the AFTA in Sample Rounds  
1 (February 1990), 2 (May 1990), and 3 (July 1990) (page 3 of 5)

PARAMETER	FTA-M8 SAMPLE ROUND			FTA-M9 SAMPLE ROUND			FTA-M10 SAMPLE ROUND		
	1	2	3	1	2	3	1	2	3
Barium	NA	48.5	17	NA	73.5	153	NA	24.2	—
Cadmium	—	—	—	—	—	—	—	—	—
Calcium	NA	2,950	4,050	NA	4,600	8,020	NA	*1540	2,490
Chromium	—	—	—	—	—	—	—	—	—
Copper	—	16	—	—	—	—	—	12.2	—
Iron	NA	# 630	#12,700	NA	# 371	# 23,300	NA	102	# 23,200
Lead	—	—	—	—	—	—	—	—	—
Magnesium	NA	2,350	3,280	NA	3,580	6,410	NA	*740	1,990
Manganese	NA	# 113	# 1,360	NA	# 192	# 722	NA	26.5	# 274
Nickel	—	17.8	—	28.2	32.2	40	—	—	22
Potassium	NA	1,080	1,660	NA	1,300	3,150	NA	*585	2,060
Selenium	—	1.1	—	—	—	—	—	—	—
Silica	NA	2,120	5,310	NA	1740	8,620	NA	2160	9,420
Sodium	NA	5,290	5,850	NA	10,800	6,410	NA	*4200	6,890
Zinc	19.8	56	—	26	23	—	13.2	21.2	—
Conductivity	50	71	58	83	210	150	25	45	32
pH	# 4.62	# 4.58	# 4.75	# 5.45	# 4.99	# 4.69	# 6.27	# 5.00	# 5.05
Temperature	14.1	16.1	20.5	13.8	18.4	21.7	13.3	13.8	20.7
Chloride	NA	8,840	11,400	NA	37,900	45,600	NA	4,900	9,200
Sulfate	NA	5,280	11,700	NA	4,670	7,410	NA	—	—
TDS	NA	78,000	88,000	NA	120,000	148,000	NA	110,00	202,000
Nitrates	NA	2,100	1,440	NA	1,600	1,760	NA	570	1,360
Ammonia Nitrogen	NA	110	—	NA	100	—	NA	130	—
Oil & Grease	NA	5,000	—	NA	5,000	—	NA	7,000	—
Orthophosphate	NA	—	—	NA	—	—	NA	—	—
Phenols	—	—	8.4	—	—	6.6	—	—	9.2
Bis(2-ethylhexyl)phthalate	—	—	—	—	—	—	—	—	—
Tetrachloroethene	14.5	16.8	6.7	—	—	—	—	—	—
Toluene	—	—	—	—	—	—	—	—	—
Trichloroethene	175	21.8	85.8	17.7	13.5	12	—	—	—
1,1,1-Trichloroethane	114	86.2	30.5	14.9	5.8	—	—	—	—
1,1-Dichloroethane	17.1	15	7.5	—	—	—	—	—	—
1,1-Dichloroethene	7.5	8.6	—	—	—	—	—	—	—
1,2-Dichloroethane	8.8	6.4	—	—	—	—	—	—	—
above MCL	—	Below Detection Limit			All data are in ug/L, except conductivity in umhos				
# exceeds secondary MCL	—	• Duplicate Samples (highest value used)			pH in Ph units				
NA not analyzed for	—				Temperature in °C				



Table 10 (continued)  
Parameters above the detection limit in groundwater samples at the AFTA in Sample Rounds  
1 (February 1990), 2 (May 1990), and 3 (July 1990) (page 4 of 5)

PARAMETER	FTA-M11 SAMPLE ROUND			FTA-M12 SAMPLE ROUND			1040 SAMPLE ROUND		
	1	2	3	1	2	3	1	2	3
Barium	NA	39.2	—	NA	20.2	64	NA	28	—
Cadmium	—	—	—	—	—	30	—	—	—
Calcium	NA	3,290	*4730	NA	1,070	2,000	NA	3,290	4,850
Chromium	—	—	—	—	—	26	—	—	—
Copper	—	—	—	—	10.8	—	25.5	24.5	43
Iron	NA	71.8	# *6810	NA	68.2	# 68,800	NA	# 1,190	# 2,700
Lead	—	—	—	—	—	—	—	—	—
Magnesium	NA	2,460	*4200	NA	781	1,840	NA	1,660	2,340
Manganese	NA	# 224	# *525	NA	# 127	# 1,110	NA	# 138	# 146
Nickel	64.2	35.5	—	—	15.8	27	—	—	—
Potassium	NA	878	*1560	NA	605	2,066	NA	1,890	3,340
Selenium	—	—	—	—	—	—	—	—	—
Silica	NA	1,510	*5080	NA	2,300	11,000	NA	1,640	1,850
Sodium	NA	2,560	*3310	NA	3,823	4,010	NA	3,940	5,820
Zinc	13.8	21.5	—	19.5	—	—	52.2	21.2	—
Conductivity	50	60	60	45	30	20	60	79	50
pH	# 5.33	# 4.87	# 4.81	# 5.92	# 4.91	# 5.59	# 5.79	# 6.14	# 5.87
Temperature	14.3	13.8	20	13.7	13.4	19.7	10.3	13.3	17.6
Chloride	NA	2,640	3,460	NA	5,160	6,190	NA	13,000	9,760
Sulfate	NA	16,600	21,800	NA	—	1,730	NA	—	4,460
TDS	NA	60,000	92,000	NA	48,000	48,000	NA	74,000	74,000
Nitrate	NA	1,920	1,060	NA	210	506	NA	2,060	—
Ammonia Nitrogen	NA	130	—	NA	130	—	NA	250	—
Oil & Grease	NA	4,000	—	NA	4,000	—	NA	10,000	—
Orthophosphate	NA	—	—	NA	—	—	NA	—	—
Phenols	—	—	8.4	—	—	8.2	—	—	28
Bis(2-ethylhexyl)phthalate	—	—	—	—	—	—	23	—	—
Tetrachloroethene	—	—	—	—	—	—	—	—	—
Toluene	—	—	—	—	—	—	—	—	—
Trichloroethene	—	—	—	—	—	—	—	—	—
1,1,1-Trichloroethane	—	—	—	10.6	—	—	—	—	—
1,1-Dichloroethane	—	—	—	—	—	—	—	—	—
1,1-Dichloroethene	—	—	—	—	—	—	—	—	—
1,2-Dichloroethane	—	—	—	—	—	—	—	—	—
above MCL	— Below Detection Limit			All data are in ug/L, except conductivity in umhos					
# exceeds secondary MCL	* Duplicate samples (highest value used)			pH in pH units					
NA not analyzed for				Temperature in °C					

Table 10 (concluded)  
Parameters above the detection limit in groundwater samples at the AFTA in Sample Rounds  
1 (February 1990), 2 (May 1990), and 3 (July 1990) (page 5 of 5)

PARAMETER	104 SAMPLE ROUND			DETECTION LIMITS SAMPLE ROUND			GUIDELINE (MCL's except where SMCL'S noted)
	1	2	3	1	2	3	
Barium	NA	25.5	—	NA	5	10	2,000 proposed
Cadmium	—	—	—	5	5	5	5
Calcium	NA	2,990	4,780	NA	10	10	not available
Chromium	—	—	—	10	10	10	100 (total Cr)
Copper	145	20.8	45	10	10	10	1,300 proposed
Iron	NA	170	248	NA	10	10	300 SMCL
Lead	79.2	—	57	30	20	20	5 proposed
Magnesium	NA	1,470	2,070	NA	30	30	not available
Manganese	NA	# 155	# 155	NA	10	10	50
Nickel	—	19	19	15	15	15	100 proposed
Potassium	NA	852	1,080	NA	500	100	not available
Selenium	—	—	—	2	1	1	50
Silica	NA	142	1,790	NA	100	100	not available
Sodium	NA	3,640	4,920	NA	30	30	not available
Zinc	116	17	—	5	10	10	5,000 SMCL
Conductivity	45	89	45				
pH	# 5.68	6.66	# 5.25				6.5 - 8.5
Temperature	11.2	13	23.3				
Chloride	NA	25,100	8,980	NA	2,000	2,000	250,000 SMCL
Sulfate	NA	3,060	—	NA	500	500	250,000 SMCL
TDS	NA	74,000	68,000	NA	10,000	10,000	500,000 SMCL
Nitrates	NA	1000	679	NA	200	200	10,000
Ammonia Nitrogen	NA	450	—	NA	10	100	not available
Oil & Grease	NA	9,000	—	NA	1,000	5,000	not available
Orthophosphate	NA	—	—	NA	200	200	not available
Phenols	—	—	63	10	5	5	not available
Bis(2-ethylhexyl)phthalate	—	—	—	10	10	10	4
Tetrachloroethene	—	—	—	5	5	5	5
Toluene	—	—	—	5	5	5	1,000
Trichloroethene	—	—	—	5	5	5	5
1,1,1-Trichloroethane	—	—	—	5	5	5	200
1,1-Dichloroethane	—	—	—	5	5	5	not available
1,1-Dichloroethene	—	—	—	5	5	5	7
1,2-Dichloroethane	—	—	—	5	5	5	5
<div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div> <p>above MCL</p> <p># exceeds secondary MCL</p> <p>• not analyzed for</p> </div> <div> <p>— Below Detection Limit</p> <p>• Duplicate samples (highest value used)</p> </div> <div> <p>All data are in ug/L, except conductivity in umhos</p> <p>pH in pH units</p> <p>Temperature in °C</p> </div> </div>							

Table 11  
Background levels for commonly reported parameters in the Talbot Formation

WELL No.	DEPTH ft	DATE SAMPLED	PARAMETERS in mg/L							pH	TEMP C°
			Ca	Cl	Fe	K	Mg	Mn	Na		
DE18 <sup>1</sup>	60	9/12/44	--	9	14	--	0	--	--	5.6	--
DE49 <sup>3</sup>	28	3/29/88	37	21	0.022	4	26	4.9	15	5.0	12
DE49 <sup>3</sup>		7/19/88	19	8.7	0.006	2.7	14	2.4	5.3	4.6	13
DE86 <sup>1</sup>	60	10/1/73	5.8	19	0.15	1.5	3.7	0.1	9.5	5.6	--
DE86 <sup>2</sup>		6/10/87	5.9	24	0.03	1.6	4	0.18	11	5.2	--
DE91 <sup>3</sup>	78	4/15/88	1.3	3.7	0.17	0.8	0.55	0.022	4.2	6.2	15
DE92 <sup>3</sup>	38	4/7/88	9.8	55	6.3	1	8.9	0.18	35	6.1	14
DE92 <sup>3</sup>		7/19/88	12	63	7	1.5	9.9	0.2	34	6.1	15
DE168 <sup>2</sup>	50	5/18/87	5.9	9	13	0.8	3.7	0.26	7.4	6.3	--
DE179 <sup>2</sup>	--	9/3/87	3.9	34	0.13	2.2	4	0.02	17	5.2	--
DE182 <sup>2</sup>	100	3/31/88	4.3	16	0.26	1.8	3.1	0.13	16	5.7	15
DE190 <sup>2</sup>	50	6/10/87	9.2	12	0.73	2.2	9.7	0.05	2.6	5.3	--
DE195 <sup>3</sup>	55	4/12/88	11	26	0.19	3.4	7.3	0.13	9.7	5.6	14
DE198 <sup>3</sup>	29	8/25/88	12	14	0.023	3.1	7.2	0.06	8.3	4.5	15
<sup>1</sup> Maryland Geological Survey Water Resources Basic Data Report No. 7											
<sup>2</sup> USGS Water Resources Data Maryland and Delaware Water Year 1987 Report MD-DE-87-1											
<sup>3</sup> USGS Water Resources Data Maryland and Delaware Water Year 1988 Report MD-DE-88-1											
-- No Data											

Table 12  
Range of parameters in background and AFTA wells

PARAMETER	BACKGROUND WELLS		RANGE OF VALUES AT AFTA WELLS	AFTA WELLS EXCEEDING GENERAL BACKGROUND RANGE
	GENERAL RANGE	MAXIMUM VALUES		
Ca	1,300 to 12,000	2 wells at 19,000 to 37,000	1,070 to 11,800	none
Cl	3,700 to 26,000	3 wells at 34,000 to 63,000	2,040 to 45,600	M9 in Rounds 2 and 3
Fe	6 to 730	4 wells at 6,300 to 14,000	39 to 68,800	M6 and 1040 in Round 2 M4, M7 thru M12 and 1040 in Round 3
K	800 to 2,200	4 wells at 2,700 to 4,000	518 to 6,750	M4 and M5 in Round 2 M4, M9 and 1040 in Round 3
Mg	550 to 9,900	2 well : at 14,000 to 26,000	740 to 6,410	none
Mn	20 to 260	2 wells at 2,400 to 4,900	14 to 1,360	M7 in Round 2 M7 thru M12 in Round 3
Na	2,600 to 17,000	2 wells at 34,000 to 35,000	2,040 to 10,800	none
pH	4.5 to 6.3	-----	4.52 to 6.6	1041 in Round 2
NOTE : Data are in ug/L, except pH.				

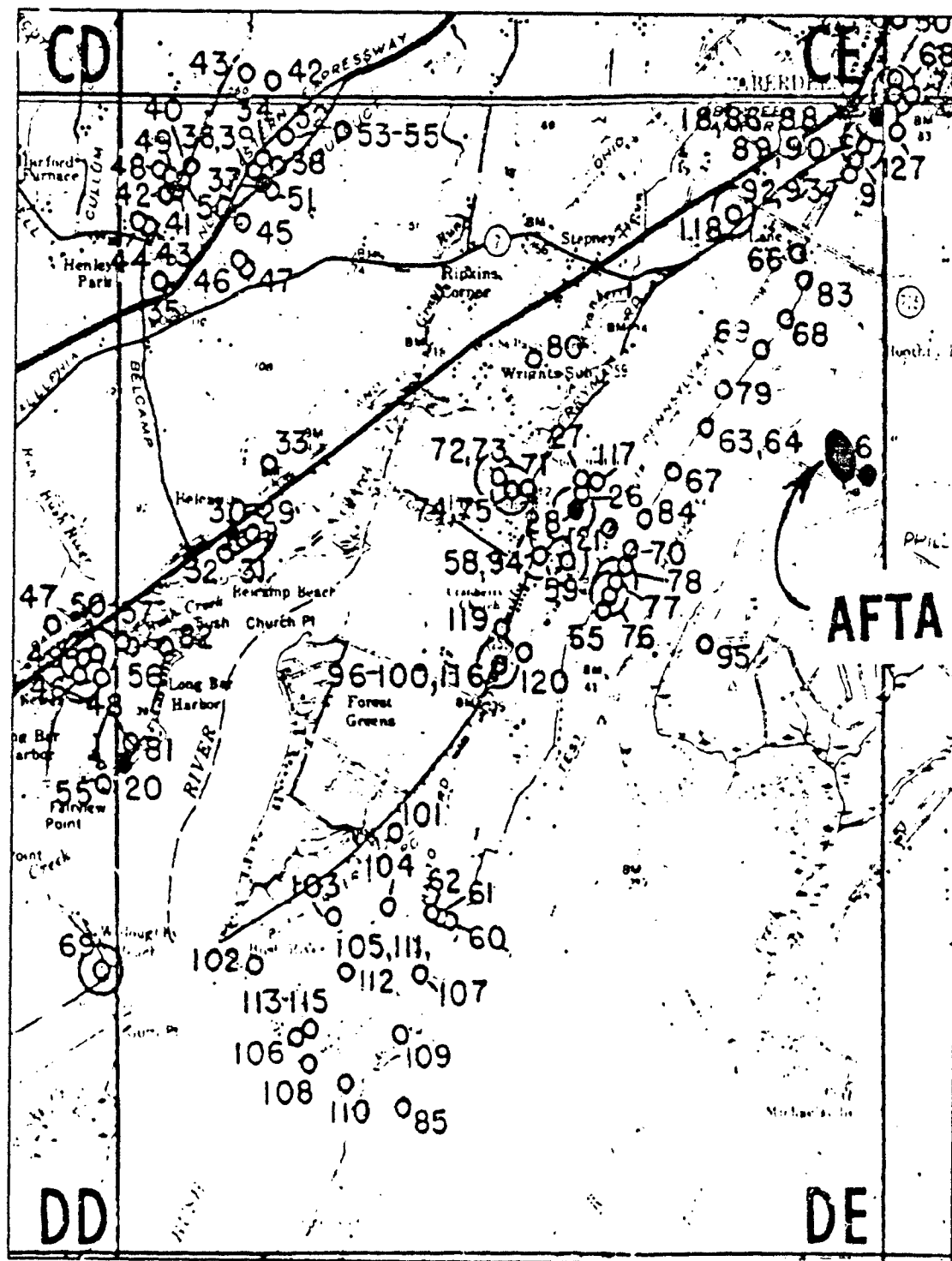


Figure 42. Location of ground-water wells used for background water quality (Nutter and Smigaj, 1975).

Chloride values of 37,900 ug/L and 45,600 ug/L (sample rounds 2 and 3, respectively) at FTA-M9 were the only values to exceed the general range of background values of 3,700 to 26,000 ug/L. The chloride values at FTA-M9 are similar to the maximum values of 34,000 to 63,000 ug/L reported in 3 of the background wells. The SMCL guideline of 250,060 ug/L was not exceeded at the AFTA.

The values for iron ranged from 68.2 to 1,190 ug/L and 39 to 68,800 ug/L in sample rounds 2 and 3, respectively. Wells FTA-M6 and 1040 (969 ug/L and 1190 ug/L, respectively) were the only wells in round 2 to exceed the general background range of 6 to 730 ug/L. Eight wells with values ranging from 2,700 to 68,800 ug/L exceeded the general background range in round 3. The concentration of iron in wells FTA-M7, -M8, -M9, -M10, -M11 and -M12 increased 2 orders of magnitude from sampling round 2 to round 3. The SMCL guideline of 300 ug/L was exceeded in 8 wells in both round 2 and 3. Well DE190 (730 ug/L) was the only background well included in the general range background values to exceed the SMCL.

The general range of background values for potassium is 800 to 2,200 ug/L with maximum values ranging from 2,700 to 4,000 ug/L in 4 background wells. Wells FTA-M4 (4480 ug/L) and -M5 (4480 ug/L) exceeded the general range of background values in sample round 2. Wells FTA-M4, FTA-M9 and 1040 (6750 ug/L, 3150 ug/L and 3340 ug/L, respectively) exceeded the general range in round 3. There is no MCL or SMCL for potassium.

The general range of background values for manganese is 20 to 260 ug/L with maximum values of 2,400 and 4,900 ug/L at 2 wells. Well FTA-M7 (416 ug/L) was the only well to exceed the general range of background values in round 2. Wells FTA-M7 thru -M12 exceeded the general range of values with values ranging from 274 to 1360 ug/L. The manganese concentrations at wells FTA-M7, FTA-M8, FTA-M10 and FTA-M12 increased an order of magnitude from sampling round 2 to round 3. The SMCL of 50 ug/L was exceeded in 9 wells in sampling round 2 and 11 times in round 3. Eight of the 10 wells used to establish background values exceeded the SMCL with values exceeding the SMCL ranging from 50 to 4900 ug/L.

The pH values at the AFTA (4.52 to 6.6) are within the general range of background values of 4.5 to 6.3. The only well at the AFTA that fell within the SMCL pH guidelines of 6.5 to 8.5 was well 1041 with a pH of 6.6 in sample round 2.

The temperature in the background wells ranged from 12° C in the late winter-early spring to 15° C in the summer. The temperatures in the AFTA wells ranged from 11.2 to 14.3° C, 11.5 to 18.4° C, and 17.6 to 24.9° C in sampling rounds 1, 2 and, 3 respectively.

Table 13

The range of values for the ground water chemical parameters above the detection limit at the AFTA.

PARAMETER	ROUND 1 (FEB 1990)				ROUND 2 (MAY 1990)				ROUND 3 (JUL 1990)				GUIDELINES
	#S	#A	MIN	MAX	#S	#A	MIN	MAX	#S	#A	MIN	MAX	
Barium			N/A		13		20.2	73.5	5		17	153	2,000 proposed MCL
Cadmium									1	1		30	5 MCL
Calcium			N/A		13		1,070	8,860	13		2,000	11,800	not available
Chromium									3		26	51	100 MCL (total Cr)
Copper	2		25.5	145	9		10.8	24.5	2		43	45	1,300 proposed MCL
Iron			N/A		13	8	68.2	1,190	11	8	39	68,800	300 SMCL
Lead	1			79.2					3	3	32	57	5 proposed MCL
Magnesium			N/A		13		740	3,580	13		1,840	6,410	not available
Manganese			N/A		13	9	14	416	11	11	146	1,360	50 SMCL
Nickel	5	1	28.2	144	8		15.8	68	6		19	41	100 MCL
Potassium			N/A		13		518	4,480	13		816	6,750	not available
Selenium					5		1	1.7					50 MCL
Silica			N/A		13		142	2,390	11		897	11,200	not available
Sodium			N/A		13		2,040	10,800	13		3,110	9,830	not available
Zinc	13		7.75	116	12		17	137	1			192	500 SMCL
Chloride			N/A		12		2,640	37,900	13		2,040	45,600	250,000 SMCL
Sulfate			N/A		10		1,650	34,600	11		1,730	28,100	250,000 SMCL
TDS			N/A		13		46,000	12,000	13		48,000	202,000	500,000 SMCL
Nitrates			N/A		13		210	4,200	12		350	2330	10,000 MCL
Ammonia Nitrogen			N/A		12		100	31,000					not available
Oil & Grease			N/A		13		3,300	10,000	1			7,200	not available
Orthophosphate			N/A		1			320					not available
Phenols									12		5.3	63	not available
Bis(2-ethylhexyl)phthalate	7	7	21	58									4 MCL
Tetrachloroethene	2	2	11.7	14.5	2	2	16.8	44	2	2	6.7	10.2	5 MCL
Toluene									1			9.7	1,000 MCL
Trichloroethene	4	4	17.7	223	4	4	13.5	219	4	4	12	162	5 MCL
1,1,1-Trichloroethane	5		10.6	114	4		5.8	119	3		5.8	43.2	200 MCL
1,1-Dichloroethane	2		8.6	17.1	2		11.9	15	1			7.5	not available
1,1-Dichloroethene	2	1	6	7.5	2	2	8.6	31.6	1	1		6.9	7 MCL
1,2-Dichloroethane	1	1		8.8	1	1		6.4					5 MCL
N/A Not Analyzed for			MIN	maximum value		#S	number of samples above Detection limit						data are in ug/L
Below Detection Limits			MAX	maximum value		#A	number of samples above GUIDELINE						

#### Parameters Exceeding MCL's

During the 3 sample rounds at the AFTA, the following 8 parameters (Table 13) exceeded an established MCL value :

cadmium	tetrachloroethene	bis(2-ethylhexyl)phthalate
lead	trichloroethene	1,2-dichloroethane.
nickel	1,1-dichloroethene	

Cadmium was detected at 30 ug/L in sample round 3 at well FTA-M12. Well FTA-M12 is an up-gradient well at the AFTA. Cadmium was not found above the detection limit of 5 ug/L in any other well in sample rounds 1, 2 or 3.

Lead above the proposed MCL guideline of 5 ug/L was found in well 1041 (79.2 ug/L) in sample round 1, and wells FTA-M2 (46 ug/L), FTA-M7 (32 ug/L) and 1041 (57 ug/L) in round 3. Well 1041 was the only well to exceed the MCL guideline of 50 ug/L which existed when the samples were analyzed. Lead was not found above the detection limit of 30 ug/L, 20 ug/L and 20 ug/L in any other wells in sampling rounds 1, 2 or 3, respectively.

Nickel exceeded the MCL guideline value of 100 ug/L in sample round 1 at well FTA-M6 (144 ug/L). Nickel ranging from 15.8 to 68 ug/L was detected in at least 1 of the 3 sample rounds in 9 of the 13 wells sampled at the AFTA. Nickel was also detected in sample rounds 2 and 3 (68 ug/L and 41 ug/L, respectively) at well FTA-M6. Wells FTA-M7 and -M9 were the only other wells where nickel was detected in all 3 sample rounds.

Bis(2-ethylhexyl)phthalate, ranging from 21 to 58 ug/L, was found in 7 samples in round 1. There were no samples above the detection limit in rounds 2 or 3. Bis(2-ethylhexyl)phthalate is a solvent used in laboratories. Bis(2-ethylhexyl)phthalate was detected in the lab blank at 21 ug/L and is considered to be a lab contaminant in the samples from sample round 1.

Tetrachloroethene was found in wells FTA-M7 (11.7 ug/L, 44 ug/L and 10.2 ug/L) and FTA-M8 (14.5 ug/L, 16.8 ug/L and 6.7 ug/L) in sample rounds 1, 2 and 3, respectively. The MCL guideline of 5 ug/L was exceeded at wells FTA-M7 and FTA-M8 in all 3 sample rounds. Tetrachloroethene was not found in any other well.

Trichloroethene was found in wells FTA-M6, -M7, -M8 and -M9 in sample rounds 1, 2 and 3. The concentrations are listed below in ug/L :

<u>WELL</u>	<u>ROUND 1</u>	<u>ROUND 2</u>	<u>ROUND 3</u>
FTA-M6	223	70	162
FTA-M7	87.5	219	62.2
FTA-M8	175	21.8	86.8
FTA-M9	17.7	13.5	12



The MCL guideline of 5 ug/L was exceeded in wells FTA-M6 thru -M9 in all 3 sample rounds. Trichloroethene was not detected in any other wells.

1,1-Dichloroethene was detected at or above the MCL guideline of 7 ug/l in wells FTA-M6, -M7 and -M8. 1,1-Dichloroethene was detected in wells FTA-M6 and -M8 at 6 ug/L and 7.5 ug/L, respectively, during sample round 1. Wells FTA-M7 and -M8 had concentrations of 31.6 ug/L and 8.6 ug/L, respectively, in sample round 2. Well FTA-M7 had 6.9 ug/L in sample round 3.

1,1-Dichloroethane was detected only at well FTA-M8 in sample rounds 2 (8.8 ug/L) and 3 (6.4 ug/L). Both values exceed the MCL guideline of 5 ug/L.

#### Summary of Chemical Data

##### Summary of surface water chemistry

Cadmium, lead, methylene chloride, and benzene exceeded the MCL guidelines in all 4 surface water samples at the AFTA. Chromium, copper, lead, silver, and zinc exceeded the fresh and/or marine water quality criteria in all 4 surface water samples. Cadmium exceeded the fresh water quality criteria in samples FTASB2 (Berm 2) and FTASB3 (Berm 3). Total DDT did not exceed 1000 ug/L, but did exceed the fresh and marine water quality criteria in samples FTASB3 (Berm 3), FTASB3SP (separation pond) and FTASB3OF (outfall). Endosulfan II exceeded the fresh and marine water quality criteria in sample FTASB3 (Berm 3).

Oil and grease were detected in sample FTASB2 and FTASB3 at 34,763,000 ug/L and 11,596,000 ug/L, respectively. Toluene, T-xylene, phenanthrene, and 2-methylnaphthalene are other fuel components detected in some or all of the samples.

##### Summary of soil gas data

The target compounds benzene (upto 6850 ug/L), toluene (upto 7550 ug/L) and O-xylene (upto 850 ug/L) were detected at the AFTA. Many of the chromatograms that identified the target compounds had several early eluting peaks (unknowns) which is typical of a gasoline chromatogram (USACE, 1989b).

##### Summary of soil sample data

Cadmium and lead were the only parameters to exceed the guidelines (Table 8) in 2 soil samples from Berm 1. Tetrachloroethene was the only parameter to exceed a guideline in 4 samples from Berm 2. Low levels of phenanthrene, T-xylene, toluene, and ethylbenzene were detected in some of the 4 samples from Berm 2. No guidelines were exceeded in 2 soil samples collected from the drainage from Berm 2. No VOCs were detected in either of the samples from the drainage. Lead, zinc, and tetrachloroethene exceeded the guidelines in 4 samples collected from Berm 3. VOCs

and breakdown products from fuels were detected in samples FTAB33 and FTAB34 from Berm 3. Lead was the only parameter exceeding a guideline in 2 samples from the separation pond. Acetone were detected in both samples from the separation pond. VOCs were detected in the outfall sample, but no parameter exceeded a guideline. Lead, DDT, and PCB-1248 exceeded the guideline in sample FTAB3DD from the drainage pathway.

No guidelines were exceeded in any of the 3 samples from the Old Smoke House, however organics were detected in the samples from inside and outside Old Smoke House. Sample FTASH1 from outside the Old Smoke house contained most of the organics.

Lead, cadmium, mercury, silver, and PCB-1248 exceeded guidelines in the 2 samples from the Fire Extinguisher Practice area. Endrin (0.083 mg/Kg) and aldrin (0.0009 mg/Kg) were in sample FTAFE1.

Total DDT ranging from 0.0007 mg/Kg to 1.495 mg/Kg were detected in 18 of the 21 soil samples from the AFTA. Sample FTAB3DD (1.495 mg/Kg) from the drainage between Berm 3 and the separation pond was the only sample to exceed the 1 mg/Kg guideline for DDT.

#### Summary of Groundwater Chemistry

The groundwater chemistry shows the AFTA is the source of the VOCs found in the groundwater monitor wells at the AFTA. Tetrachloroethene, trichloroethene, 1,1-dichloroethene, and 1,2-dichloroethane were detected in monitor wells down-gradient of the AFTA in levels exceeding the established MCLs for these parameters. 1,1,1-trichloroethane with levels ranging from 5.8 to 119 ug/L was also detected in the down-gradient monitor wells at the AFTA, but did not exceed the established MCL of 200 ug/L. Toluene at 9.7 ug/L (well FTA-M7, sample round 3) was detected only one time in 3 sample rounds, and did not exceed the established MCL of 1000 ug/L.

Cadmium, lead, and nickel were the only metals to exceed established MCLs. Cadmium was detected only 1 time in well FTA-M12 (30 ug/L) which is an up-gradient well at the AFTA. Lead was detected once in well FTA-2, which is an up-gradient well, once in well FTA-M7, which is down-gradient of the training pits, and twice in well 1041, which is a water supply well located approximately 1000 ft east or cross-gradient from the training pits. Nickel was detected above the MCL of 100 ug/L once in well FTA-M6 (144 ug/L). Nickel is the only metal that exceeded an MCL that is commonly found in many other wells at the AFTA. Nickel was found in the down-gradient and up-gradient wells, including well 1041, at similar values, ranging from 17.8 to 68 ug/L.

## PART VIII: FINDINGS AND RECOMMENDATIONS

### Findings

The investigation reported herein was completed in 1990 and this report, in draft form, was reviewed by the APG and the EPA, Region III. Subsequent and ongoing field investigations have, and will provide, additional data about the AFTA and will influence findings presented in this report. Subsequent studies include an August, 1991 groundwater sampling round and current (1992) field investigations in the AFTA and nearby western AA-APG boundary.

The water table aquifer at the AFTA is the Talbot Formation. Underlying the sands and gravels of the Talbot Formation at the AFTA are the clays of the Arundel Formation. Groundwater flow beneath the AFTA is to the south year round.

Analysis of groundwater from the monitor wells indicate the AFTA is contributing chemical contaminants to the upper aquifer. VOCs were the only contaminants found in the groundwater that consistently exceeded established MCLs. VOCs exceeding an established MCL include:

- Tetrachloroethene
- Trichloroethene
- 1,1-dichloroethene
- 1,1-dichloroethane

Cadmium, lead, and nickel exceeded established MCL values in at least 1 well in the 3 sample rounds. Cadmium was detected in only one sample from a monitor well up-gradient of the AFTA. Lead was detected in 2 monitor wells, 1 time in each well, and twice in standby production well 1041, which is located cross-gradient from the AFTA. Nickel exceeded the MCL value 1 time but was commonly found in most wells at the AFTA. Iron and manganese exceeded Secondary MCL values.

Surface water samples from the bermed pits and the separation pond contained cadmium, lead, methylene chloride, and benzene that exceeded MCL guidelines. The surface water samples also contained chromium, copper, lead, silver and zinc that exceeded the fresh and/or marine water quality criteria.

Surface soil samples show the following parameters exceeded guidelines at one or more of the training areas at the AFTA :

Cadmium	Mercury	PCB-1248
Lead	Silver	Tetrachloroethene
Zinc	DDT	

VOCs, pesticides, and fuels at levels below guidelines were detected.

### Recommendations

The following additional field investigations are recommended.

- Soil sampling to define the horizontal and vertical extent of soil contamination at the AFTA.
- Install monitor wells to define the horizontal and vertical extent of the groundwater contamination from the AFTA.
- Monitor wells should be installed between the AFTA and the Harford County production wells along the western AA-APG boundary so chemical characteristics of the groundwater between the AFTA and Harford County wells can be monitored.
- Water levels in the monitor wells at the AFTA and any adjacent areas should be measured quarterly to monitor groundwater gradients.
- The AFTA monitor wells, to include wells 1040 and 1041, and the monitor wells between the Harford county production wells and the AFTA should be sampled and analyses conducted for :
  - EPA Region III Target Compound List (TCL)
  - general water quality parameters
  - oil and grease
  - total recoverable hydrocarbons
  - metals.
- Three quarterly rounds of data should be collected.

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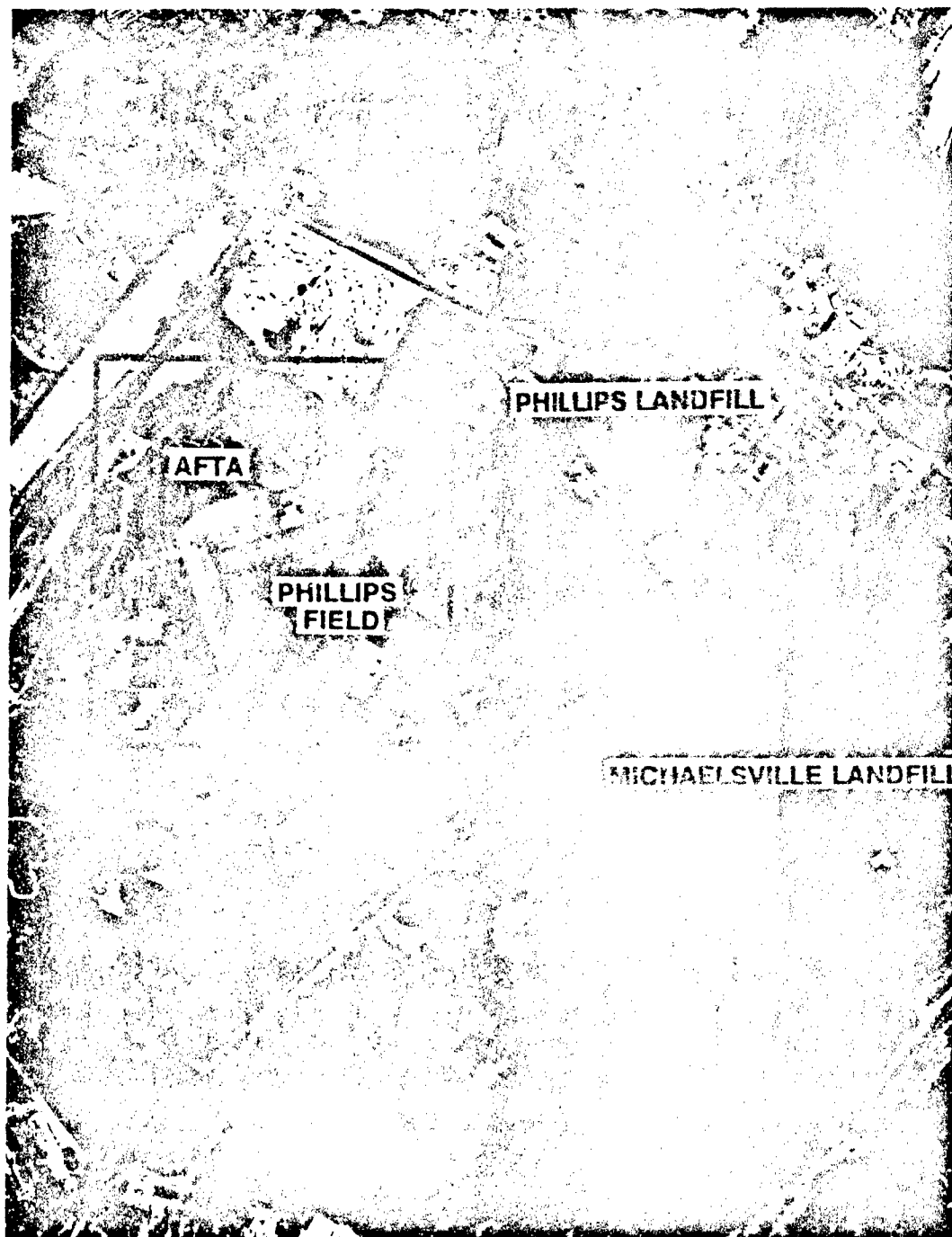
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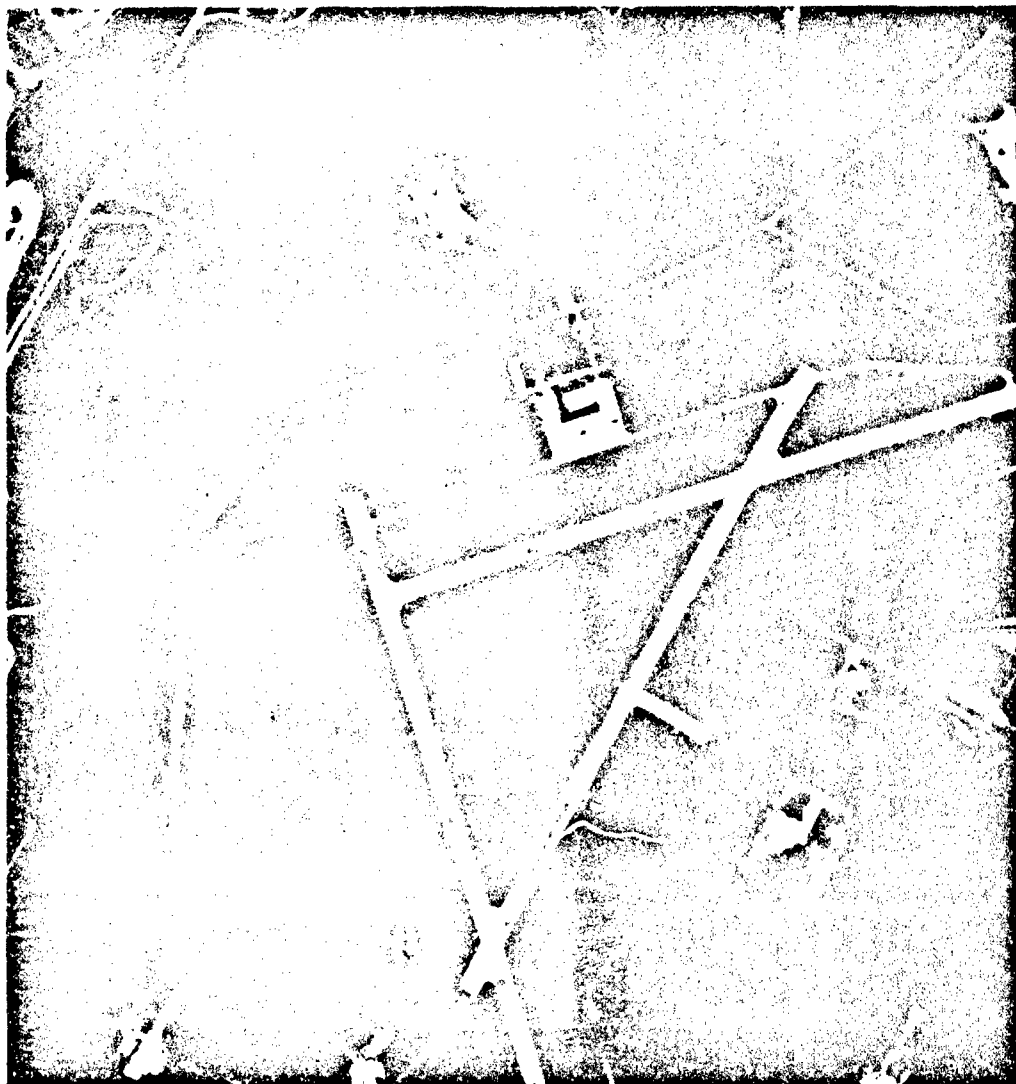
APPENDIX A

AERIAL PHOTOGRAPHS OF THE AFTA  
1952 THRU 1989



1989 aerial photograph (NAPP 19-79, taken 4-20-89) of the northern area of the Aberdeen Area Aberdeen Proving Ground (see Figure 8 in the report). The boxed-in area, which includes the AFTA, and parts of Phillips Field and Phillips Landfill, is the general area shown in the aerial photographs on pages O-2 thru O-8.





Aerial photograph ANK-3K-67 (July 12, 1952) : Barracks built during World War II occupy the AFTA. Old aircraft were being stored northwest of the AFTA (barracks area).



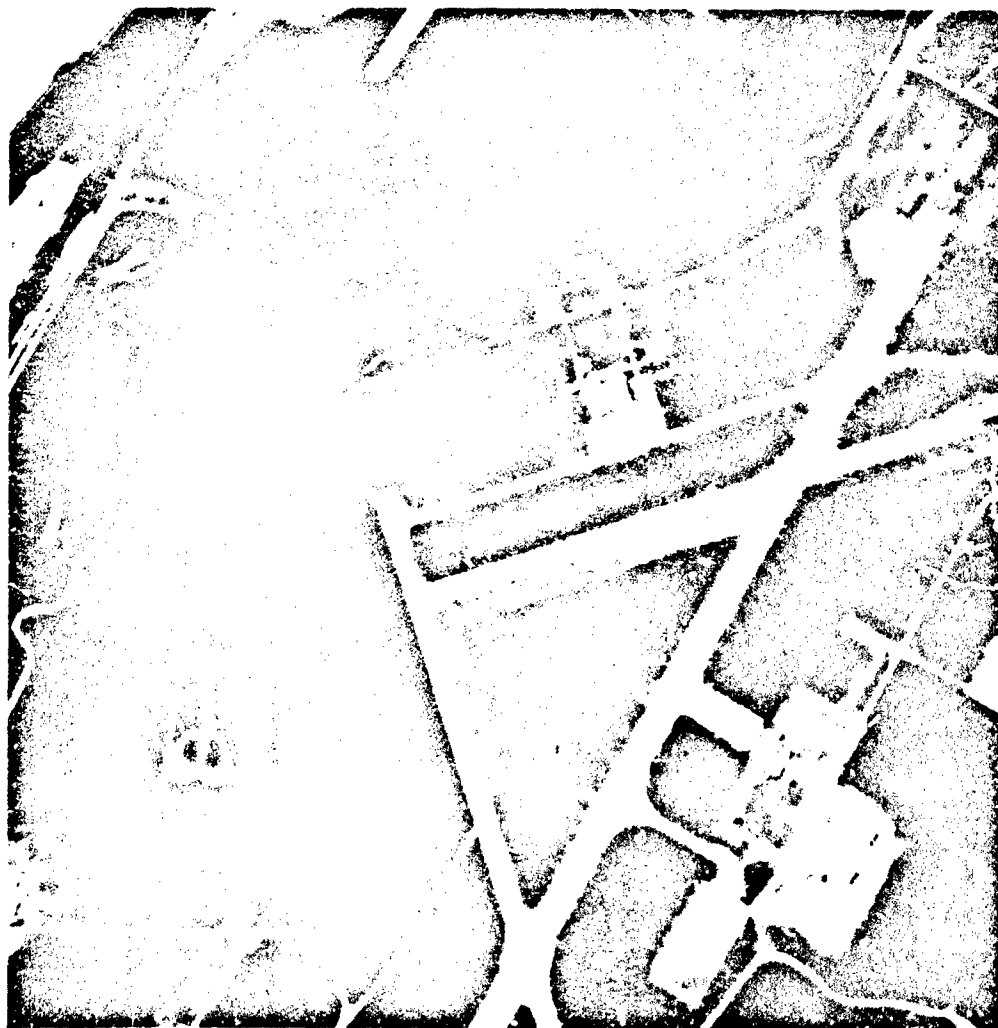
March 10, 1956 : Barracks built during World War II occupy the AFTA. Old aircraft and other materials were being stored northwest of the AFTA (barracks area).



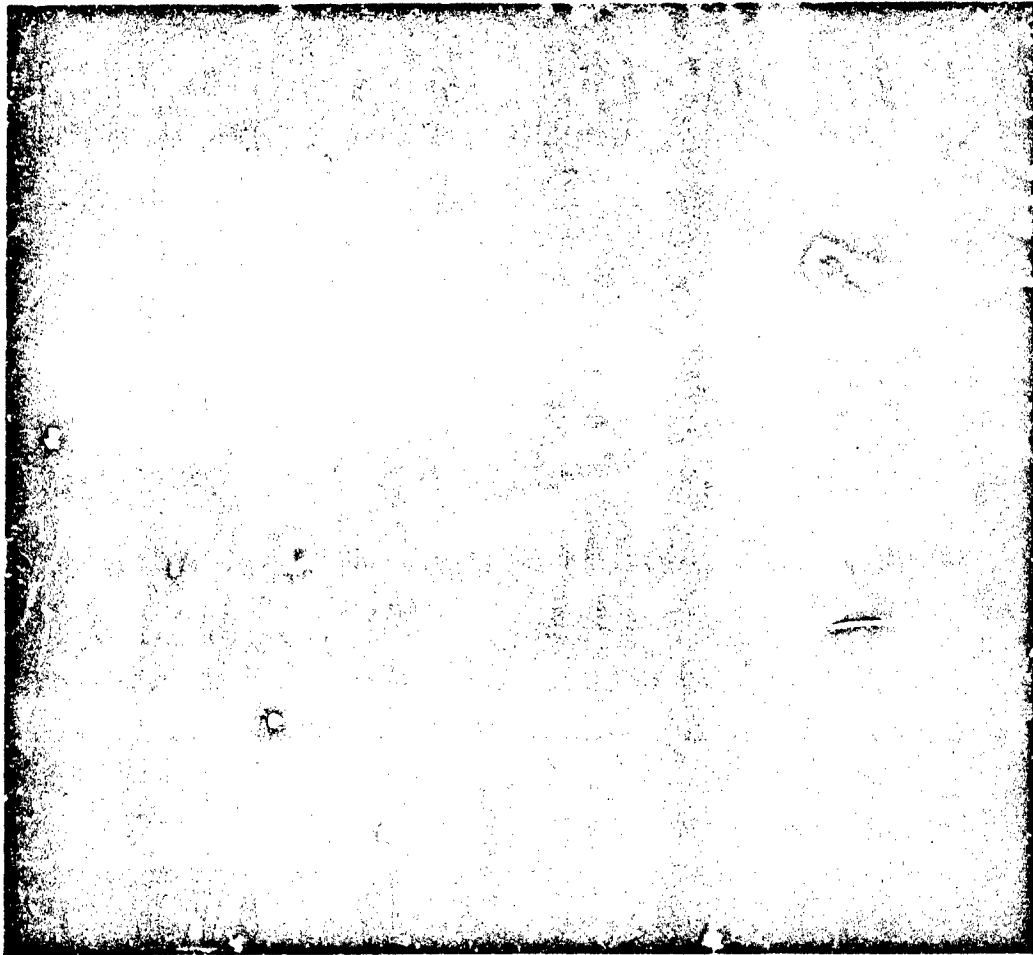
Aerial photograph ANK-3T-76 (August 28, 1957) : The barracks (2 buildings) on the western and eastern sides have been removed. The area northwest of the AFTA (barracks area) was being used to store old aircraft.



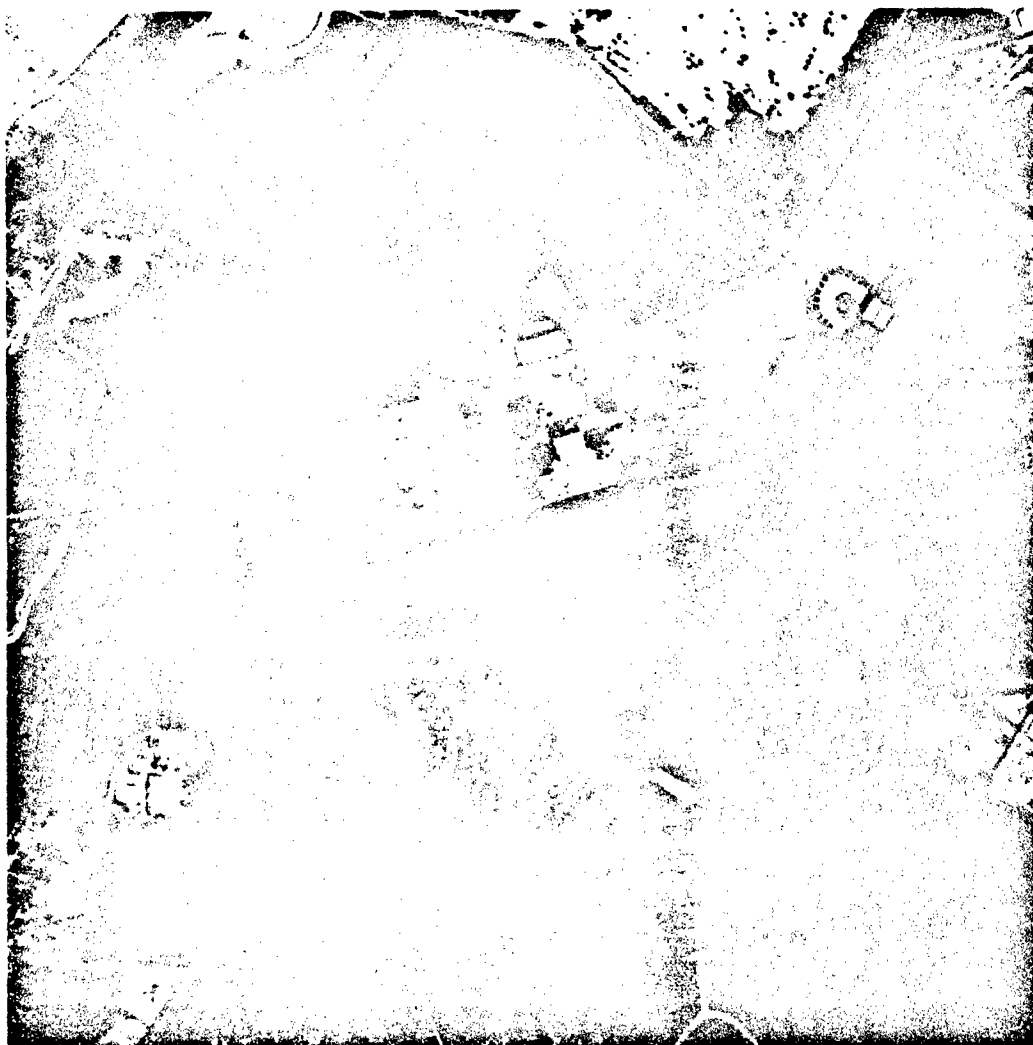
Aerial photograph ANK-5DD-59 (June 10, 1964) : All the barracks have been removed. There is a "pond like" feature (just west of the aircraft) at the location of the AFTA Separation Pond.



Aerial photograph 24025 280-36 (July 6, 1980) : The AFTA site was being used as a fire training area.



Aerial photograph 581-177 HAP-80 (March 24, 1982) : The AFTA site was being used as a fire training area.



Aerial photograph NAPP 19-79 (March 20, 1989) : As of March 1989, fire training practices at the AFTA were stopped. See Figure 31 in the report for the location of training areas at the AFTA.

APPENDIX B

PHOTOS OF TRAINING AREAS AT THE AFTA  
1989

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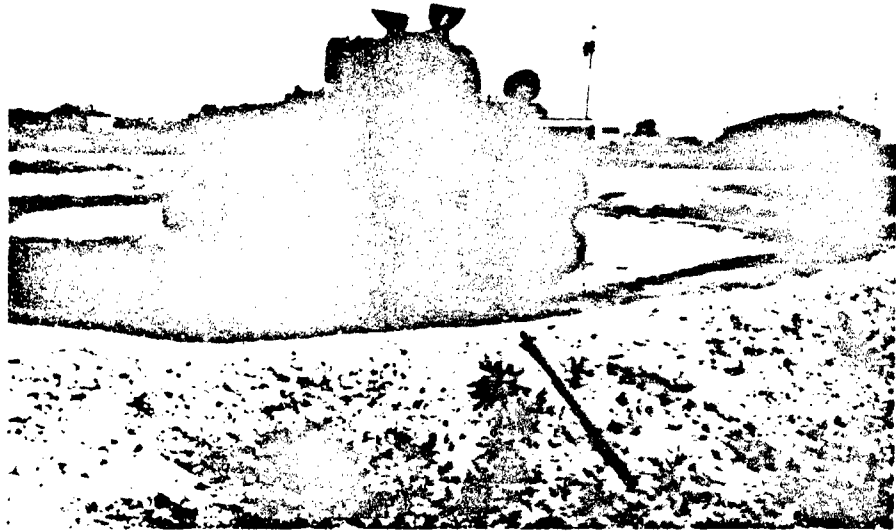




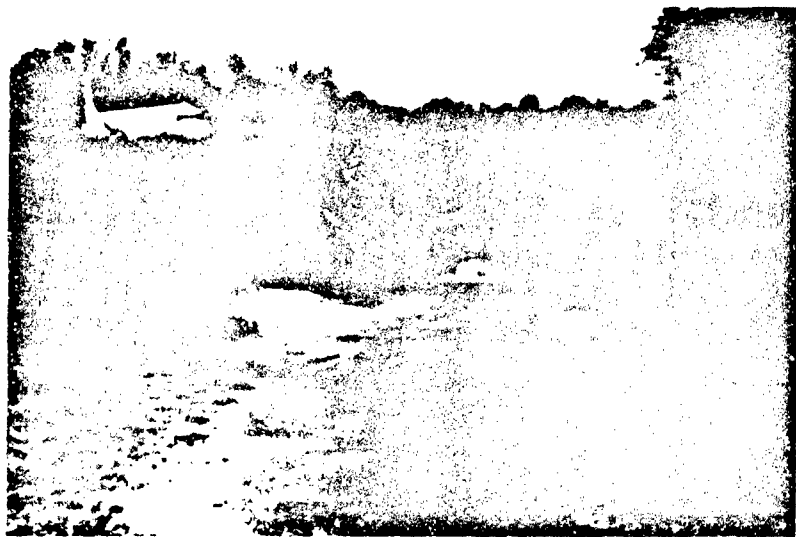
Berm 1 containing the jet aircraft (F-89 Scorpion).



Berm 2 containing the broken flange training area. Note in the background the Old Smoke House and the pump house at the Underground Storage Tank, to the left and right, respectively, of the flange in Berm 2.



Berm 3 containing the military tank. Phillips Army Airfield is in the background.



Separation pond behind Berm 3.



Old Fire Extinguisher Practice Area.



Underground Storage Tank area with the pump house in the background. The standpipes for the underground storage tank can be seen in the graveled area in front of the pump house.



Old Smoke House with the Separation Pond (located behind Berm 3)  
in the foreground.

APPENDIX C

AFTA BORING LOGS  
GROUND-WATER MONITOR WELLS FTA-M1 THRU FTA-M12  
AND SOIL BORINGS FTA-B1 THRU FTA-B3

DRILLING LOG		DIVISION		INSTALLATION APG		SHEET 1 OF 2 SHEETS	
1. PROJECT Fire Training Area				10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station) x14777 y63613				11. DAYUM FOR ELEVATION SHOWN (TBM or MSL)			
3. DRILLING AGENCY WES				12. MANUFACTURER'S DESIGNATION OF DRILL Falling 1500 (Mud Rotary)			
4. HOLE ID. (As shown on drawing title and list number) AFTAM1				13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN			
5. NAME OF DRILLER Konecny				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE STARTED COMPLETED 10-4-89 10-5-89			
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE 58.63			
9. TOTAL DEPTH OF HOLE 31.8				18. TOTAL CORE RECOVERY FOR BORING			
				19. SIGNATURE OF INSPECTOR Paul Luc88			
ELEVATION e	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
	1		Silt Clayey				
	2						
	3						
	4						
	5						
	6		Clay I increases				
	7		Gravel appears Sand I increases				
	8						
	9						
	10		Sand M-C, Silty, Trace of Clay				
	11						
	12						
	13		Sand M-C Well Rounded (Clean)				
	14						
	15		Sandy Clay				
	16		Clay Sandy Silt				
	17		Sand, Clay, Trace of Silt, Gravel				
	18						
	19						
	20		(Cont)				

DRILLING LOG		DIVISION		INSTALLATION		SHEET 2 OF 2 SHEETS	
1. PROJECT				10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station)				11. DATUM FOR ELEVATION SHOWN (TBM or MSL)			
3. DRILLING AGENCY				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number)				13. TOTAL NO OF OVER-BURDEN SAMPLES TAKEN		13. DISTURBED UNDISTURBED	
5. NAME OF DRILLER				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE		16. STARTED COMPLETED	
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE 58.63			
9. TOTAL DEPTH OF HOLE 31.8				18. TOTAL CORE RECOVERY FOR BORING %			
				19. SIGNATURE OF INSPECTOR			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water level, depth of weathering, etc., if significant) g	
	21		(Cont)				
	22						
	23						
	24						
	25						
	26						
	27						
	28						
	29						
	30		Sand, F-M, well rounded to subangular, silt, gravel (1/4" to 1-1/2")				
	31						
	32		Bottom of hole 31.8				

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PROJECT

HOLE NO.

DRILLING LOG		DIVISION	INSTALLATION		SHEET 1 OF 2 SHEETS	
1. PROJECT Fire Training Area			10. SIZE AND TYPE OF BIT APG			
2. LOCATION (Coordinates or Station) x14442 y63954			11. DAY OF ELEVATION SHOWN (TEN = 100)			
3. DRILLING AGENCY AFTAM2			12. MANUFACTURER'S DESIGNATION OF DRILL Failing 1500 (Mud Rotary)			
4. HOLE NO. (As shown on drawing title and file number)			13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		14. TOTAL NUMBER CORE BOXES	
5. NAME OF DRILLER Konecny			15. ELEVATION GROUND WATER			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			16. DATE HOLE 11-19-89		17. ELEVATION TOP OF HOLE 54.89	
7. THICKNESS OF OVERBURDEN			18. TOTAL CORE RECOVERY FOR BORING		19. SIGNATURE OF INSPECTOR Paul Lucas	
8. DEPTH DRILLED INTO ROCK			19. SIGNATURE OF INSPECTOR			
9. TOTAL DEPTH OF HOLE 27.5						
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	1		Silty clayey Brown to tan Sand increases with depth			
	2					
	3					
	4		Silt, sandy F-M, clay, trace of gravel			
	5					
	6		Sand I increasing with depth			
	7		Sand F-M-C poorly sorted silt, coarsening upward with depth (sharp contact)			
	8					
	9		Sand, silty, some small gravel stringers, fairly sorted well rounded to rounded F - M			
	10		Silt, sand F, clayey, clay nodules dark brown			
	11		Sand F-M-C, poorly sorted iron staining silty gravel I increases with depth Gravel stringer 10.3 12.4			
	12					
	13					
	14		Sand, well sorted, little or no silt, no gravel, gray, subangular to well rounded sand size decreases from medium to fine			
	15					
	16					
	17					
	18					
	19		Silt, sand I increasing			
	20		SAND (cont)			



Hole No. AFTA-M2

DRILLING LOG			DIVISION		INSTALLATION		SHEET 2 OF 2 SHEETS	
1. PROJECT			10. SIZE AND TYPE OF BIT		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)			
2. LOCATION (Coordinates or Station)			12. MANUFACTURER'S DESIGNATION OF DRILL					
3. DRILLING AGENCY			13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN		DISTURBED		UNDISTURBED	
4. HOLE NO. (As shown on drawing title and file number)			AFTAM2		14. TOTAL NUMBER CORE BOXES			
5. NAME OF DRILLER			15. ELEVATION GROUND WATER		16. DATE HOLE		STARTED COMPLETED	
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			17. ELEVATION TOP OF HOLE 54.89		18. TOTAL CORE RECOVERY FOR BORING		%	
7. THICKNESS OF OVERBURDEN			19. SIGNATURE OF INSPECTOR					
8. DEPTH DRILLED INTO ROCK								
9. TOTAL DEPTH OF HOLE 27.5								
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g		
	20		Sand, F-H, Fe (Cont)					
	21		staining and Fe bands, silty grayish-pink silt I decreases w/depth					
	22		Black organics w/Fe staining					
	23							
	24							
	25							
	26							
	27							
	28		Bottom of hole 27.5					

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PROJECT

HOLE NO

DRILLING LOG		DIVISION		INSTALLATION		SHEET 1 OF 2 SHEETS	
1. PROJECT Fire Training A.C.A.				14. SIZE AND TYPE OF BIT A-30			
2. LOCATION (Coordinates or Station) x14213 y63530				15. DAYUM FOR ELEVATION KNOWN (ITEM or ZONE)			
3. DRILLING AGENCY				16. MANUFACTURER'S DESIGNATION OF DRILL Falling 1000 (Mud Rotary)			
4. HOLE NO. (As shown on drawing title and file number) AFTAM3				17. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		DISTURBED UNDISTURBED	
5. NAME OF DRILLER Konecny				18. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				19. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN				20. DATE HOLE		STARTED COMPLETED	
8. DEPTH DRILLED INTO ROCK				10-06-89		10-08-89	
9. TOTAL DEPTH OF HOLE 25.0				21. ELEVATION TOP OF HOLE 57.33			
				22. TOTAL CORE RECOVERY FOR BORING			
				23. SIGNATURE OF INSPECTOR Paul Lucas			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
	1		Silt Clayey				
	2						
	3						
	4		Clay % increasing				
	5						
	6		Clayey				
	7		Silty Clayey				
	8						
	9		Sand, F-M, well rounded, well sorted, clayey, gravel				
	10						
	11						
	12						
	13						
	14						
	15						
	16		Sand silt and clay % increase, no gravel				
	17						
	18						
	19						
	20		(Cont)				

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MAR 71 (TRANSLUCENT)

PROJECT HOLE NO.

DRILLING LOG			DIVISION	INSTALLATION	HOLE NO. SHEET 2 OF 2 SHEETS	
1. PROJECT			10. SIZE AND TYPE OF BIT		11. DATUM FOR ELEVATION SHOWN (TBM or BM)	
2. LOCATION (Coordinates or Station)			12. MANUFACTURER'S DESIGNATION OF DRILL		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	
3. DRILLING AGENCY			14. TOTAL NUMBER CORE BOXES		15. ELEVATION GROUND WATER	
4. HOLE NO. (As shown on drawing title and site number)			16. DATE HOLE		17. ELEVATION TOP OF HOLE 57.33	
5. NAME OF DRILLER			18. TOTAL CORE RECOVERY FOR BORING		19. SIGNATURE OF INSPECTOR	
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. DATE HOLE		17. ELEVATION TOP OF HOLE 57.33	
7. THICKNESS OF OVERBURDEN			18. TOTAL CORE RECOVERY FOR BORING		19. SIGNATURE OF INSPECTOR	
8. DEPTH DRILLED INTO ROCK			15. DATE HOLE		17. ELEVATION TOP OF HOLE 57.33	
9. TOTAL DEPTH OF HOLE 25.0			18. TOTAL CORE RECOVERY FOR BORING		19. SIGNATURE OF INSPECTOR	
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			(Cont.) (No change)			
	21					
	22					
	23					
	24					
	25		Bottom of hole 25.5			
	26					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE.  
(TRANSLUCENT)

PROJECT

HOLE NO.

Hole No. AFTA-M4

DRILLING LOG		DIVISION		INSTALLATION		SHEET 1 OF 2 SHEETS	
1. PROJECT Fire Training Area				10. SIZE AND TYPE OF BIT APC			
2. LOCATION (Coordinates or Station) x14230 y63517				11. D.YUM FOR ELEVATION SHOWN (TBM or MSL)			
3. DRILLING AGENCY VPS				12. MANUFACTURER'S DESIGNATION OF DRILL Falling 1500 (Mud Rotary)			
4. HOLE NO. (As shown on drawing title and file number) AFTAM4				13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN		14. TOTAL NUMBER CORE BOXES	
5. NAME OF DRILLER Konecny				15. ELEVATION GROUND WATER		16. DATE HOLE STARTED 10/09/89 COMPLETED 10/13/89	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				17. ELEVATION TOP OF HOLE 57.18		18. TOTAL CORE RECOVERY FOR BORING	
7. THICKNESS OF OVERBURDEN				19. SIGNATURE OF INSPECTOR Paul Lucas		19. SIGNATURE OF INSPECTOR	
8. DEPTH DRILLED INTO ROCK				9. TOTAL DEPTH OF HOLE 30.6			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Descriptive)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
	1		Silty clayey brown to tan				
	2						
	3						
	4						
	5						
	6						
	7		Silt, trace of sand trace of gravel				
	8						
	9						
	10		Sand, F-M				
	11		Silty, gravel				
	12						
	13						
	14						
	15						
	16						
	17						
	18		Sand, F-M, very silty dry				
	19						
	20		(Cont)				

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PROJECT

HOLE NO.

DRILLING LOG		DIVISION		INSTALLATION		Hole No. <b>AFTA-M4</b>	
				APC		SHEET <b>2</b> OF 2 SHEETS	
1. PROJECT				10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station)				11. DATUM FOR ELEVATION SHOWN (TBM = MLL)			
3. DRILLING AGENCY				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number)				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		DISTURBED    UNDISTURBED	
5. NAME OF DRILLER Konecny				14. TOTAL NUMBER CORE BOXES		15. ELEVATION GROUND WATER	
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED    DEG. FROM VERT.				16. DATE HOLE		STARTED    COMPLETED	
7. THICKNESS OF OVERBURDEN				17. ELEVATION TOP OF HOLE    57.18			
8. DEPTH DRILLED INTO ROCK				18. TOTAL CORE RECOVERY FOR BORING    1			
9. TOTAL DEPTH OF HOLE    30.6				19. SIGNATURE OF INSPECTOR			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
a	b	c	d	e	f	g	
	20		(Cont) sand				
	21						
	22						
	23						
	24						
	25						
	26						
	27		Sand, silty, M-C gravel				
	28						
	29						
	30		Bottom of hole				
	31		30.6				

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE.

PROJECT

HOLE NO.

DRILLING LOG		DIVISION		INSTALLATION		SHEET 1 OF 2 SHEETS	
1. PROJECT Fire Training Area				10. SIZE AND TYPE OF BIT APC			
2. LOCATION (Coordinates or Station) x14445 y63219				11. DATUM FOR ELEVATION SHOWN (TBM = MSL)			
3. DRILLING AGENCY WES				12. MANUFACTURER'S DESIGNATION OF DRILL Falling 1500 (Mud Rotary)			
4. HOLE NO. (As shown on drawing title and file number) AFTAMS				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN DISTURBED UNOBTAINED			
5. NAME OF DRILLER Konecny				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE STARTED 10/25/89 COMPLETED 10/27/89			
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE 61.26			
9. TOTAL DEPTH OF HOLE 34.8				18. TOTAL CORE RECOVERY FOR BORING 1			
19. SIGNATURE OF INSPECTOR Paul Lucas							
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
	1		Silt, clay, little or no sand tan				
	2						
	3						
	4						
	5						
	6		Silt, sandy M-C little gravel clay dark gray brown				
	7						
	8						
	9						
	10						
	11		Sand, F-M silt gravel unconsolidated dark gray brown organics				
	12						
	13						
	14						
	15		Same as above with clay nodules				
	16		Sand F-M-C silt unconsolidated dark brown organics				
	17						
	18						
	19		Gravel & increases				
	20		(Cont)				

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE.

PROJECT

HOLE NO.

DRILLING LOG		DIVISION	INSTALLATION		SHEET 2 OF 2 SHEETS	
1. PROJECT			10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station)			11. DAY OF YEAR FOR ELEVATION SHOWN (YBM or MSL)			
3. DRILLING AGENCY			12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number)			13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN			
5. NAME OF DRILLER			14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN			16. DATE HOLE			
8. DEPTH DRILLED INTO ROCK			17. ELEVATION TOP OF HOLE 61.26			
9. TOTAL DEPTH OF HOLE 34.3			18. TOTAL CORE RECOVERY FOR BORING			
			19. SIGNATURE OF INSPECTOR			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVER- ERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	21		(Sand) (Cont)			
	22					
	23					
	24		Same as above but gravel % decreases with depth			
	25					
	26		Sand F-M, silty color change from tan to dark brown gravel organics			
	27					
	28					
	29					
	30					
	31					
	32					
	33					
	34		Sand, F-M, well rounded poorly sorted, silty overall fine % increasing			
	35		Bottom of hole 35.3			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE.

PROJECT

HOLE NO.

DRILLING LOG			DIVISION	INSTALLATION	SHEET 1 OF 2 SHEETS	
1. PROJECT Fire Training Area				10. SIZE AND TYPE OF BIT APC		
2. LOCATION (Coordinates or Station)				11. DATUM FOR ELEVATION SHOWN (TBM or MSL)		
3. DRILLING AGENCY WES				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 1500 (Mud Rotary)		
4. HOLE NO. (As shown on drawing title and file number) AFTAM6				13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN DISTURBED UNDISTURBED		
5. NAME OF DRILLER Konecny				14. TOTAL NUMBER CORE BOXES		
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER		
7. THICKNESS OF OVERBURDEN				16. DATE HOLE STARTED 10/27/89 COMPLETED 10/28/89		
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE 61.05		
9. TOTAL DEPTH OF HOLE 34.0				18. TOTAL CORE RECOVERY FOR BORING %		
				19. SIGNATURE OF INSPECTOR Paul Lucas		
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	1		Silty Clay			
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13		Sand F-M-C, silty, gravel, poorly sorted unconsolidated			
	14					
	15					
	16					
	17					
	18					
	19					
	20		(Cont)			



DRILLING LOG			DIVISION		INSTALLATION		SHEET 2 OF 2 SHEETS	
1. PROJECT					10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station)					11. DATUM FOR ELEVATION SHOWN (TBM or BSL)			
3. DRILLING AGENCY					12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number) AFTAM6					13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN		DISTURBED UNDISTURBED	
5. NAME OF DRILLER					14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.					15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN					16. DATE HOLE STARTED COMPLETED			
8. DEPTH DRILLED INTO ROCK					17. ELEVATION TOP OF HOLE 61.05			
9. TOTAL DEPTH OF HOLE 34.0					18. TOTAL CORE RECOVERY FOR BORING %			
19. SIGNATURE OF INSPECTOR								
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVER- ERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g		
	21		(Cont) Sand F-M-C, silty, gravelly, black organics					
	22		Sand F-M, well rounded silty gravelly, well sorted					
	23							
	24							
	25							
	26							
	27		Silty % increasing					
	28		Gravel size increasing					
	29							
	30							
	31		Sand F-M-C silty gravel large cobble					
	32							
	33							
	34		Bottom of hole 34.0					
	35							

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MAR 71

PROJECT

HOLE NO.

DRILLING LOG		DIVISION		INSTALLATION		SHEET 1 OF 2 SHEETS	
1. PROJECT Fire Training Area				10. SIZE AND TYPE OF BIT APC			
2. LOCATION (Coordinates or Station) x14808 y63342				11. DAYUM FOR ELEVATION SHOWN (TBM or MSL)			
3. DRILLING AGENCY WES				12. MANUFACTURER'S DESIGNATION OF DRILL Falling 1500 (Mud Rotary)			
4. HOLE NO. (As shown on drawing title and file number) AFTAM7				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN DISTURBED UNDISTURBED			
5. NAME OF DRILLER Konecny				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN				16. DATE MOLE STARTED 11/25/89 COMPLETED 11/27/89			
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF MOLE 59.52			
9. TOTAL DEPTH OF MOLE 32.5				18. TOTAL CORE RECOVERY FOR BORING			
				19. SIGNATURE OF INSPECTOR Paul Lucas			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
	1		Silt, little clay, little or no sand brown to tan				
	2						
	3						
	4						
	5		Silt, sand & increasing M-C, clayey				
	6						
	7						
	8		Sand, F-M-C, poorly sorted, unconsolidated gravel, tan, silt & increasing				
	9						
	10		Silt, sand F-M-C, poorly sorted, unconsolidated, no gravel, tight				
	11		Sand, F-M-C, poorly sorted, unconsolidated				
	12						
	13		Silt and gravel & increase with depth				
	14						
	15						
	16		---Organic stain				
	17						
	18						
	19		Black organics				
	20		(Cont)				

DRILLING LOG		DIVISION		INSTALLATION		SHEET 2 OF 2 SHEETS	
1. PROJECT				10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordination or Station)				11. DATUM FROM ELEVATION SHOWN (TBM or MSL)			
3. DRILLING AGENCY				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number)				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN			
5. NAME OF DRILLER				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE			
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE 59.52			
9. TOTAL DEPTH OF HOLE 32.5				18. TOTAL CORE RECOVERY FOR BORING			
				19. SIGNATURE OF INSPECTOR			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVER- RY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
			(Cont)				
	21		Sand, F-M, well sorted well rounded to subangular silt % decreases with depth, yellow brown, no gravel				
	22						
	23						
	24						
	25		Sand, F-M-C, poorly sorted silty, gravel, unconsolidated				
	26						
	27		Sand F-M, well rounded, silt % increases no gravel				
	28						
	29						
	30		Sand, F-M-C, poorly sorted, well rounded, little silt, no gravel				
	31						
	32		Gravel appearance				
	33		Bottom of hole 32.5				
	34						

DRILLING LOG		DIVISION		INSTALLATION		SHEET 1 OF 2 SHEETS	
1. PROJECT Fire Training Area				10. SIZE AND TYPE OF BIT APG			
2. LOCATION (Coordinates or Station) x15018 y63395				11. DATUM FOR ELEVATION SHOWN (TBM or MSL)			
3. DRILLING AGENCY WES				12. MANUFACTURER'S DESIGNATION OF DRILL Falling 1500 (Mud Rotary)			
4. HOLE NO. (As shown on drawing title and file number) AFTAM8				13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN			
5. NAME OF DRILLER KONGCHY				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE STARTED 12/1/89 COMPLETED 12/3/89			
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE 59.39			
9. TOTAL DEPTH OF HOLE 32.5				18. TOTAL CORE RECOVERY FOR BORING 1			
				19. SIGNATURE OF INSPECTOR Paul Lucas			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVER- ERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
	1		Silt, clay & decreasing with depth brown to tan				
	2						
	3						
	4						
	5						
	6		Gravel % increases				
	7		Sand C, very silty, poorly sorted, tight, brick red, green gray clay nodules Fe staining				
	8						
	9						
	10		Sand, F-M-C, silty, little or no gravel Fe staining, little or no clay Silt % increases with depth Sand C, % increases with depth				
	11						
	12						
	13						
	14		Silt, little or no sand, little clay				
	15		Sand F-M-C, poorly sorted, gravel % increasing slightly silt % increasing slightly				
	16						
	17		Silt lense				
	18						
	19		Brick red clay nodules				
	20		Silt, little or no sand, gravel, tight (Cont)				

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PROJECT

HOLE NO.

DRILLING LOG		DIVISION		INSTALLATION		SHEET 2 OF 2 SHEETS	
1. PROJECT				10. SIZE AND TYPE OF B.T.			
2. LOCATION (Coordinates or Station)				11. DATUM FOR ELEVATION SHOWN (TBM or B.M.)			
3. DRILLING AGENCY				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number)				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED UNDISTURBED	
5. NAME OF DRILLER				14. TOTAL NUMBER CORE BOXES		15. ELEVATION GROUND WATER	
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				16. DATE HOLE		STARTED COMPLETED	
7. THICKNESS OF OVERBURDEN				17. ELEVATION TOP OF HOLE 59.39			
8. DEPTH DRILLED INTO ROCK				18. TOTAL CORE RECOVERY FOR BORING			
9. TOTAL DEPTH OF HOLE 32.5				19. SIGNATURE OF INSPECTOR			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVER- ERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering etc., if significant) g	
21			Sand F-M-C, poorly sorted silt, some gravel unconsolidated				
22			Gravel % increasing				
23							
24							
25			Sand F-M, well sorted, well rounded, silty, gravel unconsolidated (25.5 black organic stain)				
26							
27			Silt % increases gravel % decreases				
28							
29			Sand F-M, well sorted, silt, no gravel, organic stains				
30			Gravel % increases				
31							
32							
33			Bottom of hole 32.5				
34							

DRILLING LOG		DIVISION		INSTALLATION		SHEET	
				APC		1	
1. PROJECT		2. LOCATION (Coordinates or Station)		3. DRILLING AGENCY		4. HOLE NO. (As shown on drawing title and file number)	
Fire Training Area		x15196 v63459		WES		AFIAM9	
5. NAME OF DRILLER		6. DIRECTION OF HOLE		7. THICKNESS OF OVERBURDEN		8. DEPTH DRILLED INTO ROCK	
Konecny		<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.					
9. TOTAL DEPTH OF HOLE		10. SIZE AND TYPE OF BIT		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)		12. MANUFACTURER'S DESIGNATION OF DRILL	
33.5						Felling 1500 (Mud Rotary)	
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		14. TOTAL NUMBER CORE BOXES		15. ELEVATION GROUND WATER		16. DATE HOLE	
						STARTED 11/28/89 COMPLETED 11/30/89	
17. ELEVATION TOP OF HOLE		18. TOTAL CORE RECOVERY FOR BORING		19. SIGNATURE OF INSPECTOR		20. REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
59.48				Paul Lucas			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.		
	1		Silt, clay tan to yellow brown iron staining gravel stringers				
	2						
	3						
	4		Gravel pea size and large				
	5						
	6		Sand % increasing				
	7		Sand				
	8		Brick red clay nodules				
	9		Gravel % increasing				
	10		Silt % decreasing				
	11		Black organic stain				
	12		Sand % increasing				
	13		Silty lense				
	14		Gravel % decreasing				
	15		Sand, F-M-C, poorly sorted, silty, gravel, unconsolidated iron staining				
	16						
	17						
	18		Gravel % increasing				
	19						
	20		Sand (Cont)				

DRILLING LOG		DIVISION	INSTALLATION	SHEET 2 OF 2 SHEETS		
1. PROJECT			10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station)			11. DATUM FOR ELEVATION SHOWN (TBM or BSL)			
3. DRILLING AGENCY			12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing (1111) and file number)			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN			
AFTA-M9			DISTURBED UNDISTURBED			
5. NAME OF DRILLER			14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN			16. DATE HOLE			
8. DEPTH DRILLED INTO ROCK			STARTED COMPLETED			
9. TOTAL DEPTH OF HOLE 33.5			17. ELEVATION TOP OF HOLE 59.48			
			18. TOTAL CORE RECOVERY FOR BORING 1			
			19. SIGNATURE OF INSPECTOR			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
21			(Cont) Sand F-M, fairly well sorted, silty, unconsolidated, red brown			
22			Gravel % increase			
23			Iron stained band			
24			Sand F-M-C, coarse increasing, silt % increasing, unconsolidated, little or no gravel			
25			Silt, sandy			
26			Sand, F-M-C, poorly sorted, silty, gravel unconsolidated			
27						
28						
29			Gravel % decreases			
30			Silty lense gray			
31			Sand F-M, fairly well sorted, black organics, little gravel, silty lense gray, unconsolidated			
32						
33			Bottom of hole			
			33.5			

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PROJECT

HOLE NO.

Hole No. AFTA-M10

DRILLING LOG		DIVISION		INSTALLATION		SHEET 1 OF 2 SHEETS	
1. PROJECT Fire Training Area				10. SIZE AND TYPE OF BIT APC			
2. LOCATION (Coordinates or Station) x14446 y62836				11. DATUM FOR ELEVATION SHOWN (TBM or MSL)			
3. DRILLING AGENCY WFS				12. MANUFACTURER'S DESIGNATION OF DRILL Falling 1500 (Mud Rotary)			
4. HOLE NO. (As shown on drawing title and site number) AFTAM10				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN Disturbed Undisturbed			
5. NAME OF DRILLER Konecny				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE STARTED 10/13/89 COMPLETED 10/14/89			
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE 63.21			
9. TOTAL DEPTH OF HOLE 37.5				18. TOTAL CORE RECOVERY FOR BORING			
				19. SIGNATURE OF INSPECTOR Paul Lucas			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
	1		Silt, clayey sand increases with depth trace of gravel				
	2						
	3						
	4						
	5						
	6						
	7						
	8						
	9		Silt and clay decrease with depth				
	10						
	11		Gravel % decrease				
	12		Sand F-M, silty clayey trace of gravel				
	13						
	14						
	15						
	16						
	17		Gravel % increases				
	18						
	19						
	20		Gravel % decreases (Cont)				

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PROJECT

HOLE NO.



DRILLING LOG		VISION		INSTALLATION		SHEET 2 OF 2 SHEETS	
1. PROJECT				10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station)				11. DATUM FOR ELEVATION SHOWN (FWS or MSL)			
3. DRILLING AGENCY				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and site number)				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN			
AFTA-M10				14. TOTAL NUMBER CORE BOXES			
5. NAME OF DRILLER				15. ELEVATION GROUND WATER			
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				16. DATE HOLE STARTED COMPLETED			
7. THICKNESS OF OVERBURDEN				17. ELEVATION TOP OF HOLE 63.21			
8. DEPTH DRILLED INTO ROCK				18. TOTAL CORE RECOVERY FOR BORING			
9. TOTAL DEPTH OF HOLE 37.5				19. SIGNATURE OF INSPECTOR			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
			(Cont)				
	21		Silt clayey, sand F, clay I decrease with depth				
	22						
	23						
	24						
	25		Sand F, well sorted, silty trace of gravel brick red clay nodules				
	26						
	27		Very silty sand F-M-C gravel				
	28						
	29						
	30		Gravel I decrease				
	31						
	32						
	33						
	34						
	35						
	36						
	37						
	38		Bottom of hole 37.5				

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PROJECT

HOLE NO.

DRILLING LOG			DIVISION	INSTALLATION	SHEET 1 OF 2 SHEETS	
1. PROJECT Fire Training Area				10. SIZE AND TYPE OF BIT		
2. LOCATION (Coordinates or Station) X14251 Y63893				11. DAY OF YEAR FOR ELEVATION SHOWN (TBM or BBL)		
3. DRILLING AGENCY WES				12. MANUFACTURER'S DESIGNATION OF DRILL Fajing 1500 (Hand Rotary)		
4. HOLE NO. (As shown on drawing title and file number) AFTAM11				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		
5. NAME OF DRILLER Konecny				14. TOTAL NUMBER CORE BOXES		
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER		
7. THICKNESS OF OVERBURDEN				16. DATE HOLE STARTED 11/21/89 COMPLETED 11/2/89		
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE 54.13		
9. TOTAL DEPTH OF HOLE 26.0				18. TOTAL CORE RECOVERY FOR BORING		
				19. SIGNATURE OF INSPECTOR Paul Lucas		
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	1		Silt, clayey dark brown to tan			
	2					
	3					
	4					
	5		Silt sand MC, clayey brown			
	6					
	7		Gravel % increases			
	8					
	9					
	10					
	11		Sand, F-M-C, poorly sorted silt, gravel			
	12					
	13		Sand, F-M-C, silty no gravel			
	14					
	15		Gravel % increasing			
	16					
	17					
	18					
	19		Sand, F-M-C, poorly sorted			
	20		(Cont)			

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PROJECT

HOLE NO.

DRILLING LOG		DIVISION		INSTALLATION		SHEET 2 OF 2 SHEETS	
1. PROJECT				10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station)				11. DATE FOR ELEVATION SHOWN (TBM or MSL)			
3. DRILLING AGENCY				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number)				13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN		DISTURBED UNDISTURBED	
5. NAME OF DRILLER				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE		STARTED COMPLETED	
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE 54.18			
9. TOTAL DEPTH OF HOLE 26.0				18. TOTAL CORE RECOVERY FOR BORING			
				19. SIGNATURE OF INSPECTOR			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVER- Y e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
	21		(Cont) Sand, gravel, silt, organic coating (19' to 19.5') brown				
	22						
	23						
	24		Organics				
	25		Interbedded with lenses of well sorted sand F-M (23.4-26.0)				
	26		Bottom of hole 26.0				

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PROJECT

HOLE NO.

DRILLING LOG		DIVISION	INSTALLATION	SHEET 1 OF 2 SHEETS		
1. PROJECT Fire Training Area			10. SIZE AND TYPE OF BIT APG			
2. LOCATION (Coordinate or Station) x14513 y64373			11. DAYUM FOR ELEVATION SHOWN (TBM or MCA)			
3. DRILLING AGENCY WFS			12. MANUFACTURER'S DESIGNATION OF DRILL Felling 1500 (Mud Rotary)			
4. HOLE NO. (As shown on drawing title and file number) AFTAM12			13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN UNDISTURBED			
5. NAME OF DRILLER Konecny			14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN			16. DATE HOLE STARTED 11/2/89 COMPLETED 11/24/89			
8. DEPTH DRILLED INTO ROCK			17. ELEVATION TOP OF HOLE 55.27			
9. TOTAL DEPTH OF HOLE 27.5			18. TOTAL CORE RECOVERY FOR BORING			
			19. SIGNATURE OF INSPECTOR Paul Lucas			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	1		Silt, trace of clay brown to tan			
	2					
	3		Sand % increases			
	4					
	5					
	6		Stiff, tight			
	7		Sand and gravel % increasing			
	8					
	9		Sand, silt, F-M-C unconsolidated, little gravel, poorly sorted			
	10					
	11					
	12					
	13		Silt % increase gravel % increasing with depth			
	14					
	15		Silt % decrease gravel % increase			
	16					
	17		Silt % increase Gravel % decrease organic stains dark brown			
	18					
	19		Organic stain			
	20		(Cont)			

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PROJECT

HOLE NO.

DRILLING LOG		DIVISION		INSTALLATION		Hole No. <u>AFTA-M12</u> SHEET <u>2</u> OF 2 SHEETS	
1. PROJECT				10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinate or Station)				11. DATUM FOR ELEVATION SHOWN (TBM or MSL)			
3. DRILLING AGENCY				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number)				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		13. DISTURBED UNDISTURBED	
5. NAME OF DRILLER				14. TOTAL NUMBER CORE BOXES		15. ELEVATION GROUND WATER	
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				16. DATE HOLE		16. STARTED COMPLETED	
7. THICKNESS OF OVERBURDEN				17. ELEVATION TOP OF HOLE <u>55.27</u>			
8. DEPTH DRILLED INTO ROCK				18. TOTAL CORE RECOVERY FOR BORING			
9. TOTAL DEPTH OF HOLE <u>27.5</u>				19. SIGNATURE OF INSPECTOR			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVER- Y e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
	21		(Cont) Sand Silt % increase gravel % decrease iron stain				
	22		Little or no gravel iron staining				
	23		Silt decreasing w/depth				
	24						
	25						
	26		Silt % increasing				
	27		Brown organic stain				
	28		Bottom of hole 27.5				

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PROJECT

HOLE NO.

Hole No. AFTA-B1

DRILLING LOG		DIVISION	INSTALLATION	SHEET		
			APC	OF 5 SHEETS		
1. PROJECT Fire Training Area			10. SIZE AND TYPE OF BIT			
2. LOCATION (County, State or Station) X14809 y63391			11. DATUM FOR ELEVATION SHOWN (FSL or MSL)			
3. DRILLING AGENCY WES			12. MANUFACTURER'S DESIGNATION OF DRILL Failing 1500 (Mud Rotary)			
4. HOLE NO. (As shown on drawing title and file number) AFTA-B1			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN			
5. NAME OF DRILLER Konecny			14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN			16. DATE HOLE STARTED COMPLETED 9/8/89 9/13/89			
8. DEPTH DRILLED INTO ROCK			17. ELEVATION TOP OF HOLE 58.99			
9. TOTAL DEPTH OF HOLE 81.5			18. TOTAL CORE RECOVERY FOR BORING			
			19. SIGNATURE OF INSPECTOR Paul Lucas			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVER- ERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, amount of mudlogging, etc., if significant)
1			Silt, trace of clay, trace of gravel, brown to dark yellow brown			
2						
3						
4			Gravel stringer			
5			Silt, trace of clay, sand C, iron staining			
6			Gravel and sand $\frac{1}{2}$ increasing			
7			Sand, silty, trace of clay, M-C, well rounded to angular, poorly sorted, iron staining			
8						
9						
10						
11						
12						
13			Silty sand band with iron staining			
14			Sand F-M, clayey, gravel lenses			
15						
16						
17			Thin clay lense			
18			Sand, clayey, silty, F-M-C gravel, interbedded lenses of fine silty sand well sorted			
19						
20			(Cont)			

ENG FOR 1836 PREVIOUS EDITIONS ARE OBSOLETE  
MAR 71

PROJECT

HOLE NO.

Hole No. AFTA-B1

DRILLING LOG			DIVISION	INSTALLATION	SHEET 2 OF 5 SHEETS	
1. PROJECT				10. SIZE AND TYPE OF BIT		
2. LOCATION (Coordinates or Station)				11. DAYUM FOR ELEVATION SHOWN (TSR or BSL)		
3. DRILLING AGENCY				12. MANUFACTURER - DESIGNATION OF DRILL		
4. HOLE NO. (As shown on drawing title and also marked) AFTA-B1				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		
5. NAME OF DRILLER				14. TOTAL NUMBER CORE BOXES		
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER		
7. THICKNESS OF OVERBURDEN				16. DATE HOLE		
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE 58.99		
9. TOTAL DEPTH OF HOLE 81.5				18. TOTAL CORE RECOVERY FOR BORING		
				19. SIGNATURE OF INSPECTOR		
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling run, water loss, depth of weathering, etc., if significant) g
21			Clay, silty			
22			Silty fine sand, VF-F well rounded, well sorted, iron staining, thin black laminated clay lense:			
23						
24						
25						
26			Sand F-M, rounded to angular, silty gravel & in- creasing with depth poorly sorted, clay silt nodules, organics; black silt laminations; iron staining			
27						
28						
29						
30						
31						
32						
33						
34			Sand F-M-C, coarse with depth, red; clay nodules (brick red); some gravel, silty			
35						
36			thin black laminated silt lense			
37						
38						
39						
40			(Cont)			

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PROJECT

HOLE NO.

Hole No. AFTA-B1

DRILLING LOG		DIVISION		INSTALLATION		SHEET 3 OF 5 SHEETS	
1. PROJECT				10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station)				11. DATUM FOR ELEVATION (FWS or MSL)			
3. DRILLING AGENCY				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number) AFTA-B1				13. TOTAL NO. OF OVER-BOREHOLE SAMPLES TAKEN		DISTURBED UNDISTURBED	
5. NAME OF DRILLER				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE		STARTED COMPLETED	
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE 58.99			
9. TOTAL DEPTH OF HOLE 81.5				18. TOTAL CORE RECOVERY FOR BORING			
				19. SIGNATURE OF INSPECTOR			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of penetration, etc., if significant) g	
			(Cont)				
41							
42							
43							
44							
45			Thin black laminated silt lenses				
46							
47			Sand, F-M, well rounded subangular, brown Fe staining, silty;				
48			gravel % increasing w/depth; poorly sorted				
49							
50							
51							
52							
53							
54							
55							
56							
57			Brown organic layer				
58							
59							
60			Gravel % decreasing w/depth (Cont)				

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE.

PROJECT

HOLE NO.



Hole No. AFTA-B1

DRILLING LOG		DIVISION	INSTALLATION		SHEET 4 OF 5 SHEETS	
1. PROJECT			10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station)			11. DAY OF YEAR ELEVATION SHOWN (YEN or MIL)			
3. DRILLING AGENCY			12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing site and site number)			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED	UNDISTURBED
5. NAME OF DRILLER			14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN			16. DATE HOLE		STARTED	COMPLETED
8. DEPTH DRILLED INTO ROCK			17. ELEVATION TOP OF HOLE 58.99			
9. TOTAL DEPTH OF HOLE 81.5			18. TOTAL CORE RECOVERY FOR BORING 1			
			19. SIGNATURE OF INSPECTOR			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			(Cont)			
61						
62						
63						
64						
65			Black organic material			
66						
67						
68						
69			Silt % increase			
70						
71						
72						
73						
74			Silt, clayey with some fine sand @ 74.2 ft.			
75			Clay, stiff, mottled, silty, with scattered thin silt lenses, gray; silt % decreases with depth			
76						
77						
78						
79						
80			(Cont)			

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PROJECT

HOLE NO.

Hole No. AFTA-B1

DRILLING LOG		DIVISION		INSTALLATION		SHEET 5 OF 5 SHEETS	
1. PROJECT				10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station)				11. DAY OF YEAR FOR ELEVATION INCHES (IN) OR FEET (FT)			
3. DRILLING AGENCY				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and site number)				13. TOTAL NO. OF OVERBURDEN SAMPLE TAKEN		DISTURBED      UNDISTURBED	
5. NAME OF DRILLER				14. TOTAL NUMBER CORE BOXES		15. ELEVATION GROUND WATER	
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED      DEG. FROM VERT.				16. DATE HOLE		STARTED      COMPLETED	
7. THICKNESS OF OVERBURDEN				17. ELEVATION TOP OF HOLE		58.99	
8. DEPTH DRILLED INTO ROCK				18. TOTAL CORE RECOVERY FOR BORING		%	
9. TOTAL DEPTH OF HOLE				19. SIGNATURE OF INSPECTOR			
81.5							
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	1. CORE RECOVERY %	2. BOX OR SAMPLE NO.	REMARKS (Drilling time, water level, depth of penetration, etc., if significant)	
			(Cont)				
	81		Clay				
	82		Bottom of hole 81.5				

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE

PROJECT

HOLE NO.

DRILLING LOG		DIVISION	INSTALLATION	SHEET		
			APG	1 OF 7 SHEETS		
1. PROJECT Fire Training Area			10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station) x14442 y61958			11. DAYUM FOR ELEVATION SHOWN (FWS - MSL)			
3. DRILLING AGENCY WES			12. MANUFACTURER'S DESIGNATION OF DRILL Falling 1500 (Mud Rotary)			
4. HOLE NO. (As shown on drawing title and file number) AFTA-B2			13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN			
5. NAME OF DRILLER Konecny			14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN			16. DATE HOLE STARTED COMPLETED			
8. DEPTH DRILLED INTO ROCK 122.4			17. ELEVATION TOP OF HOLE 55.54			
9. TOTAL DEPTH OF HOLE			18. TOTAL CORE RECOVERY FOR BORING			
			19. SIGNATURE OF INSPECTOR Paul Lucas			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	1		Silt, trace of clay and sand Clay % decrease with depth			
	2					
	3					
	4					
	5					
	6		Sand stringer silt % decrease sand and clay % increases with depth; some gravel			
	7					
	8					
	9		Sand F-H, trace of silt and clay, some gravel			
	10					
	11		Thin clay and silt lenses			
	12					
	13					
	14					
	15		Gravel % increases			
	16		Alternating bands of sand and clay			
	17		Clay lenses, slightly sandy pink			
	18					
	19					
	20		(Cont)			

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(TRANSLUCENT)

PROJECT

HOLE NO

Hole No. AFTA-B2

DRILLING LOG		DIVISION		INSTALLATION		SHEET 2 OF 7 SHEETS	
1. PROJECT				10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station)				11. DATUM FOR ELEVATION SHOWN (TBM = ASL)			
3. DRILLING AGENCY				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number) AFTA-B2				13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN		DISTURBED UNDISTURBED	
5. NAME OF DRILLER				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE		STARTED COMPLETED	
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE 55.54			
9. TOTAL DEPTH OF HOLE 122.4				18. TOTAL CORE RECOVERY FOR BORING			
				19. SIGNATURE OF INSPECTOR			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Descriptive) d	% CORE RECOV- ERY e	BOR OR SAMPLE NO. f	REMARKS (Drifting, tool, water level, depth of penetration, etc., if significant) g	
	21		(Cont) Sand F-M, tan, slightly silty clay seam pink,				
	22		Sand F-M, brown, silty, clayey brown black viscous material organics				
	23						
	24		Sand coarsens with depth				
	25						
	26		Reddish brown viscous material				
	27						
	28						
	29						
	30		Black organics				
	31		Sand C black Sand F-M silty, Fe staining unconsolidated gravel				
	32						
	33						
	34						
	35		Gravel, silty, clay nodules				
	36						
	37						
	38						
	39						
	40		(Cont)				

ENG FORM 18 36  
MAR 71PREVIOUS EDITIONS ARE OBSOLETE.  
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PROJECT

HOLE NO.

Hole No. AFTA-B2

DRILLING LOG		DIVISION		INSTALLATION		SHEET 3 OF 7 SHEETS	
1. PROJECT				10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station)				11. DATUM FOR ELEVATION SHOWN (TBM or BBL)			
3. DRILLING AGENCY				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number) AFTA-B2				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED UNDISTURBED	
5. NAME OF DRILLER				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE		STARTED COMPLETED	
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE 55.54			
9. TOTAL DEPTH OF HOLE 122.4				18. TOTAL CORE RECOVERY FOR BORING			
				19. SIGNATURE OF INSPECTOR			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	SCORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
			(Cont)				
	41		Sand F-M, well rounded subangular, reddish brown, silty with clay lenses deep red banding; some gravel				
	42						
	43						
	44						
	45		Sand, F-M, brownish yellow				
	46						
	47						
	48						
	49						
	50		Sand coarsens with depth, black organics				
	51						
	52						
	53						
	54		Clay, sandy, silty, soft, organics, gray to dark gray, trace of gravel				
	55						
	56						
	57						
	58						
	59						
	60		(Cont)				

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE  
(TRANSLUCENT)

PROJECT

HOLE NO

Hole No. AFTA-B2

DRILLING LOG		DIVISION		INSTALLATION		SHEET 4 OF 7 SHEETS	
1. PROJECT				10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station)				11. DATUM FOR ELEVATION (SHOW TYPE OF B.S.)			
3. DRILLING AGENCY				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number) AFTA-B2				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN			
5. NAME OF DRILLER				14. TOTAL NUMBER CORE BORES			
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE			
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE 55.54			
9. TOTAL DEPTH OF HOLE 122.4				18. TOTAL CORE RECOVERY FOR BORING			
				19. SIGNATURE OF INSPECTOR			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Designation)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
a	b	c	d	e	f	g	
			(Cont)				
	61		Sand & Increasing				
	62		Sand F, rounded; clay nodules, red; trace of clay and silt				
	63						
	64						
	65						
	66						
	67						
	68						
	69						
	70		Clay, very silty, with some VF sand; stiff				
	71						
	72						
	73						
	74						
	75						
	76		Organic laminations				
	77		Very fine sand, clayey, red				
	78						
	79						
	80		(Cont)				

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MAR 71

PREVIOUS EDITIONS ARE OBSOLETE

(TRANSLUCENT)

PROJECT

HOLE NO

Hole No. AFTA-82

DRILLING LOG		DIVISION		INSTALLATION		SHEET 5 OF 7 SHEETS	
1. PROJECT				10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station)				11. DATUM FOR ELEVATION, SHOWN (TBM or MSL)			
3. DRILLING AGENCY				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number) AFTA-82				13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN			
5. NAME OF DRILLER				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED DEC. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE			
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE 55.54			
9. TOTAL DEPTH OF HOLE 122.4				18. TOTAL CORE RECOVERY FOR BORING			
				19. SIGNATURE OF INSPECTOR			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
			(Cont)				
81							
82							
83			Clay & increasing				
84							
85			Stiff black clay zone				
86							
87			Clay, stiff friable brown to red micaceous				
88							
89			Sand, F-H, clayey-silty, well rounded				
90							
91							
92			Clay, stiff, micaceous, brown/red				
93			Intermittent stringers (thin) of M-C sand, silty				
94							
95							
96							
97							
98							
99							
100			(Cont)				

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE  
MAR 71 (TRANS (ICT 71))

PROJECT

HOLE NO

DRILLING LOG		DIVISION		INSTALLATION		Hole No. AFTA-B2	
						SHEET 6 OF 7 SHEETS	
1. PROJECT				10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates & Station)				11. DAY/TON ELEVATION KNOWN (FT/M)			
3. DRILLING AGENCY				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number) AFTA-52				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED UNDISTURBED	
5. NAME OF DRILLER				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE _____ STARTED _____ COMPLETED _____			
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE 55.54			
9. TOTAL DEPTH OF HOLE 122.4				18. TOTAL CORE RECOVERY FOR BORING _____ %			
				19. SIGNATURE OF INSPECTOR _____			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	1. CORE RECOVERY	2. CORE SAMPLE NO.	REMARKS (Drilling time, water loss, depth of monitoring, etc., if significant)	
			(Cont.)				
	101		Clay brown to red				
	102						
	103						
	104						
	105						
	106						
	107						
	108						
	109						
	110						
	111						
	112						
	113						
	114						
	115						
	116		Color change to dark gray				
	117						
	118						
	119						
	120		(Cont.)				

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

PROJECT

HOLE NO



Hole No. AFTA-B2

DRILLING LOG			DIVISION	INSTALLATION	SHEET 7 OF 7 SHEETS	
1. PROJECT				10. SIZE AND TYPE OF BIT		
2. LOCATION (Coordinates or Station)				11. DAY OF YEAR ELEVATION SHOWN (TWS or MSL)		
3. DRILLING AGENCY				12. MANUFACTURER'S DESIGNATION OF DRILL		
4. HOLE NO. (As shown on drawing title and site number) AFTA-B2				13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN		DISTURBED UNDISTURBED
5. NAME OF DRILLER				14. TOTAL NUMBER CORE BOXES		
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER		
7. THICKNESS OF OVERBURDEN				16. DATE HOLE		STARTED COMPLETED
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE 55.54		
9. TOTAL DEPTH OF HOLE 122.4				18. TOTAL CORE RECOVERY FOR BORING		
				19. SIGNATURE OF INSPECTOR		
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water level, depth of weathering, etc., if significant) g
			(Cont)			
	121					
	122					
	123		Bottom of hole 122.4			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE.

PROJECT

HOLE NO.

DRILLING LOG			DIVISION		INSTALLATION		SHEET 1 OF 5 SHEETS	
1. PROJECT Fire Training Area			APC		10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinate or Station) x14214 v63529					11. DATE OF ELEVATION (HOW? (FPM or MTL))			
3. DRILLING AGENCY WFS					12. MANUFACTURER'S DESIGNATION OF DRILL Falling 1500 (Mud Rotary)			
4. HOLE NO. (As shown on drawing title and file number)					13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED UNDISTURBED	
5. NAME OF DRILLER Kenechv					14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.					15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN					16. DATE HOLE		STARTED COMPLETED	
8. DEPTH DRILLED INTO ROCK					17. ELEVATION TOP OF HOLE		57.08	
9. TOTAL DEPTH OF HOLE 91.0					18. TOTAL CORE RECOVERY FOR BORING		1	
19. SIGNATURE OF INSPECTOR								
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	SCORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g		
	1		Silt; silty-clayey; clay % increases with depth trace of fine sand					
	2							
	3							
	4							
	5							
	6							
	7		Trace of gravel					
	8							
	9		Sand M-C, subrounded, angular, silty; trace of gravel					
	10							
	11							
	12							
	13		Sand F-M-C-VC, silty-clayey with fine grained sand stringers					
	14							
	15		Sand F-M, well rounded, silty-clayey, some organic laminations					
	16							
	17							
	18							
	19							
	20		(Cont)					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE.

PROJECT

HOLE NO.

Hole No. AFTA-B3

DRILLING LOG			DIVISION	INSTALLATION	SHEET 2 OF 5 SHEETS	
1. PROJECT			10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station)			11. STATUS FOR ELEVATION SHOWN (FSM or MSL)			
3. DRILLING AGENCY			12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number) AFTA-B3			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	
5. NAME OF DRILLER			14. TOTAL NUMBER CORE BOXES		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER		15. ELEVATION GROUND WATER	
7. THICKNESS OF OVERBURDEN			16. DATE HOLE		16. DATE HOLE	
8. DEPTH DRILLED INTO ROCK			17. ELEVATION TOP OF HOLE 57.08		17. ELEVATION TOP OF HOLE 57.08	
9. TOTAL DEPTH OF HOLE 91.0			18. TOTAL CORE RECOVERY FOR BORING		18. TOTAL CORE RECOVERY FOR BORING	
			19. SIGNATURE OF INSPECTOR		19. SIGNATURE OF INSPECTOR	
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
21			Sand, f, subrounded, silty, trace clay			
22						
23			Silt, sandy, yellowish brown			
24						
25			Sand F-M-C, silty, some gravel, organics, dark yellow brown			
26						
27						
28			Clay, trace of silt			
29			Sand F-M, silty, well rounded to subangular organics			
30						
31						
32			Sand F-M-C, silty sub- rounded to organic lamina- tions			
33						
34						
35						
36						
37						
38						
39						
40			(Cont)			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE.

PROJECT

HOLE NO.

Hole No. AFTA-B3

DRILLING LOG		DIVISION		INSTALLATION		SHEET 3 OF 5 SHEETS	
1. PROJECT				10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station)				11. DATUM FOR ELEVATION SHOWN (TBM or BLL)			
3. DRILLING AGENCY				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number)				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		13. DISTURBED UNDISTURBED	
5. NAME OF DRILLER				14. TOTAL NUMBER CORE BOXES			
6. DIRECT HOLE <input type="checkbox"/> YES <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE STARTED COMPLETED			
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE 57.08			
9. TOTAL DEPTH OF HOLE 91.0				18. TOTAL CORE RECOVERY FOR BORING 1			
19. SIGNATURE OF INSPECTOR							
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
			(Cont)				
	41		Sand, fine, & increasing slightly, silty, subrounded, no organics, Fe staining.				
	42						
	43						
	44						
	45						
	46						
	47						
	48						
	49						
	50						
	51						
	52						
	53						
	54						
	55						
	56						
	57						
	58						
	59						
	60		(Cont)				

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE.

PROJECT

HOLE NO.

Hole No. AFTA-B3

DRILLING LOG			DIVISION		INSTALLATION		SHEET 4 OF 5 SHEETS	
1. PROJECT			10. SIZE AND TYPE OF BIT		11. DAYUM FOR ELEVATION SHOWN (TBM or BBL)			
2. LOCATION (Coordinates or Station)			12. MANUFACTURER'S DESIGNATION OF DRILL		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN			
3. DRILLING AGENCY			14. TOTAL NUMBER CORE BOXES		15. ELEVATION GROUND WATER			
4. HOLE NO. (As shown on drawing title and file number)			16. DATE HOLE		STARTED		COMPLETED	
5. NAME OF DRILLER			17. ELEVATION TOP OF HOLE		57.08		18. TOTAL CORE RECOVERY FOR BORING	
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			19. SIGNATURE OF INSPECTOR		5			
7. THICKNESS OF OVERBURDEN			9. TOTAL DEPTH OF HOLE		91.0			
8. DEPTH DRILLED INTO ROCK								
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of penetration, etc., if significant)		
a	b	c	d	e	f	g		
	61		(Cont) Sand					
	62							
	63							
	64							
	65							
	66							
	67							
	68							
	69		Gravel clay% increasing					
	70							
	71		Clay, stiff, organics, slightly sandy, lt gray mottled with red					
	72							
	73							
	74							
	75							
	76							
	77							
	78							
	79							
	80		(Cont)					

 ENG FORM 18 36 PREVIOUS EDITIONS ARE OBSOLETE.  
 MAR 71

PROJECT

HOLE NO.

Hole No. AFTA-B3

DRILLING LOG		DIVISION	INSTALLATION	SHEET 5 OF 5 SHEETS		
1. PROJECT			10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station)			11. DATUM FOR ELEVATION SHOWN (TBM or BIL)			
3. DRILLING AGENCY			12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number)			13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN			
5. NAME OF DRILLER			14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE <input type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN			16. DATE HOLE			
8. DEPTH DRILLED INTO ROCK			17. ELEVATION TOP OF HOLE 57.08			
9. TOTAL DEPTH OF HOLE 91.0			18. TOTAL CORE RECOVERY FOR BORING			
			19. SIGNATURE OF INSPECTOR			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Clay (Cont)			
	81		Lignitized wood chips			
	82					
	83					
	84					
	85					
	86					
	87					
	88					
	89					
	90					
	91		Bottom of hole 91.0			
	92					

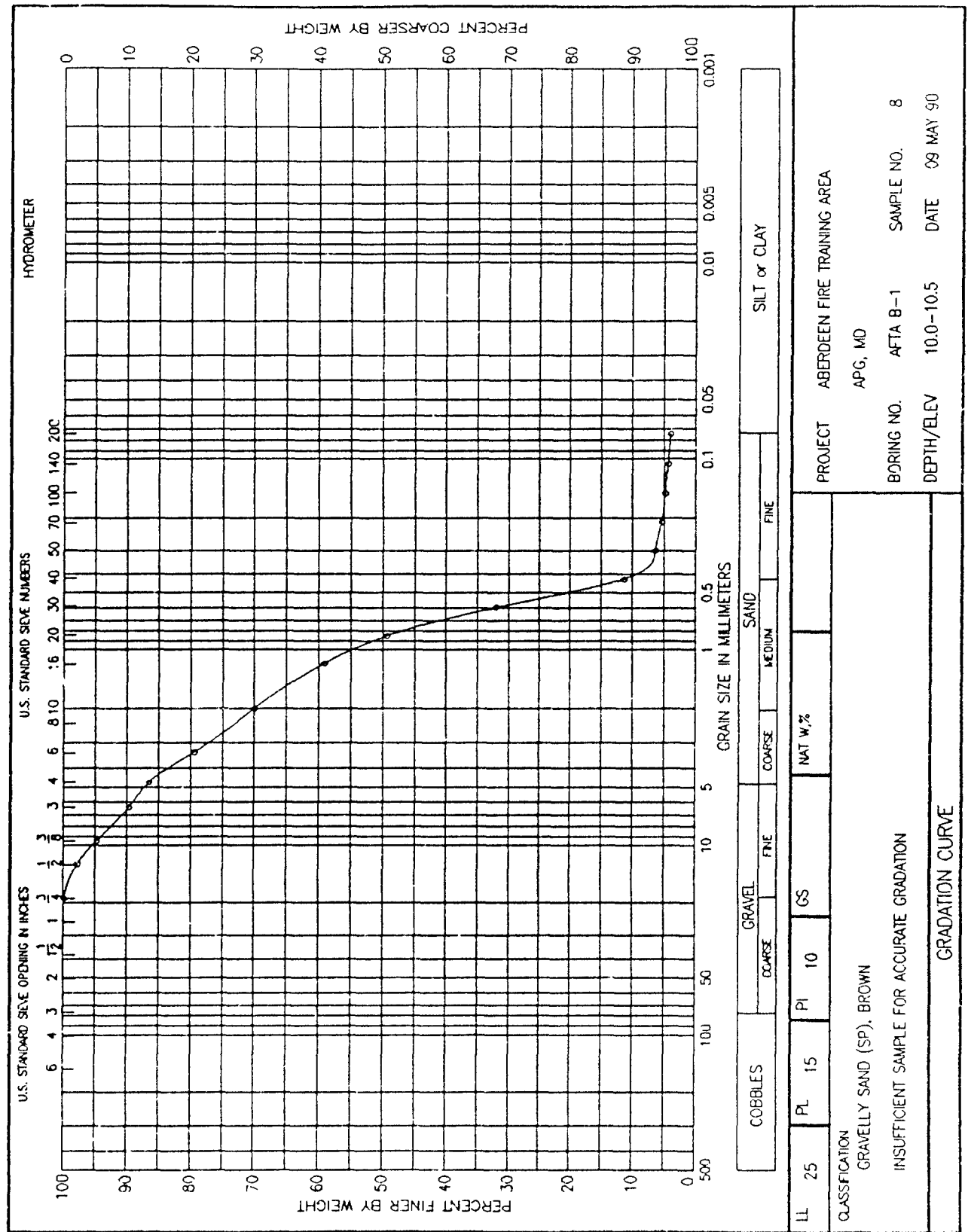
ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE.

PROJECT

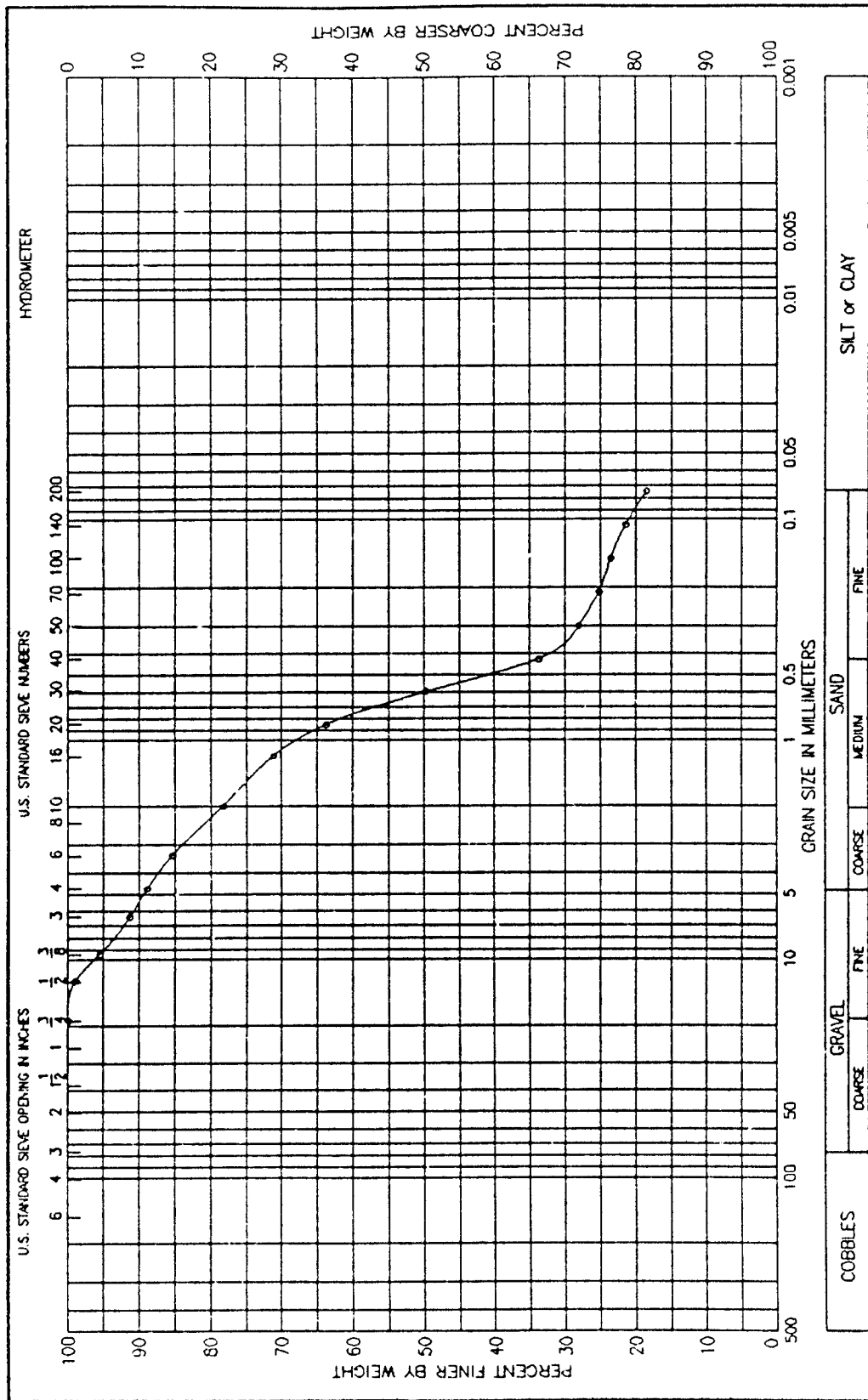
HOLE NO.

APPENDIX D

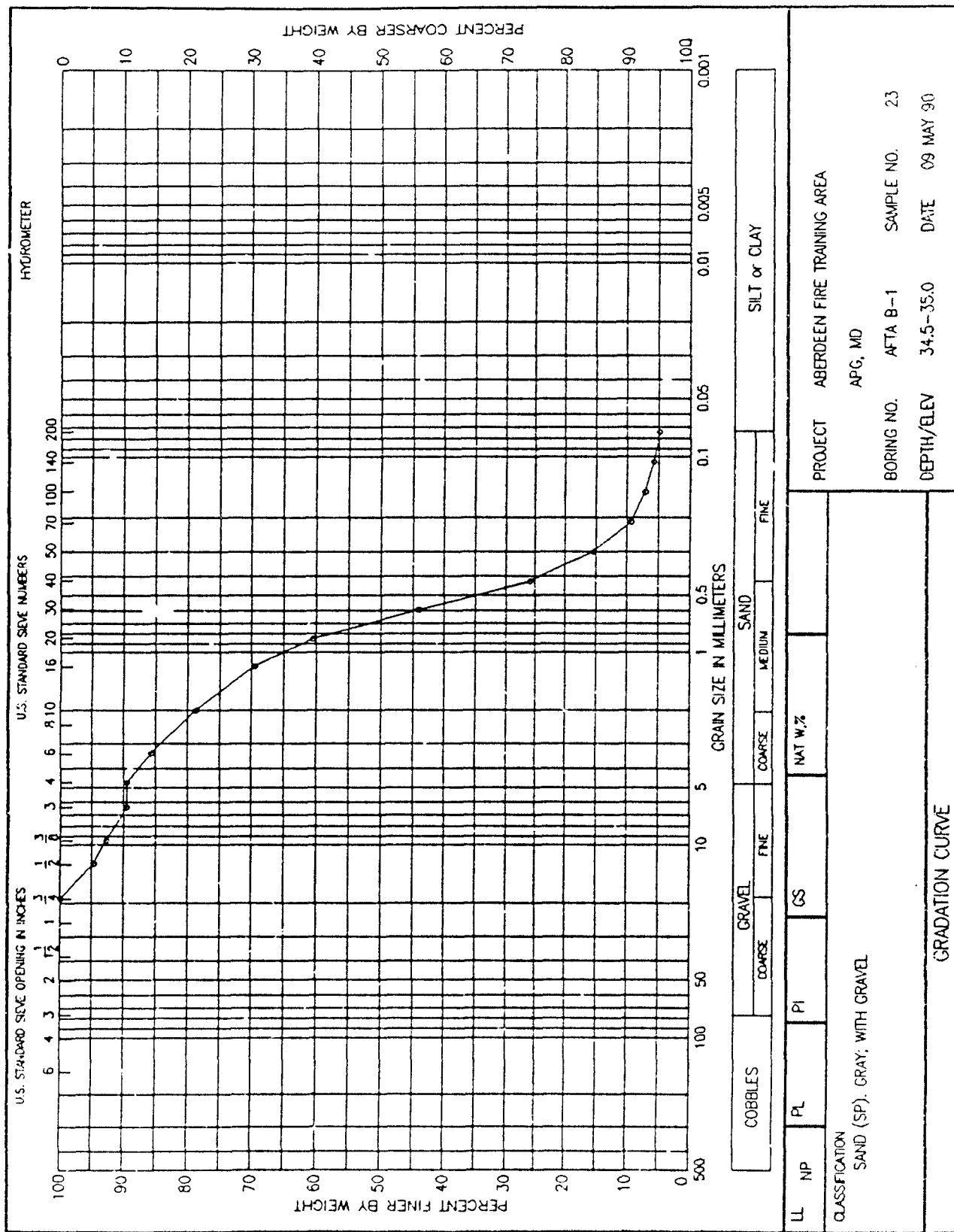
GRAIN SIZE ANALYSIS FOR  
SOIL BORINGS FTA-B1 THRU FTA-B3

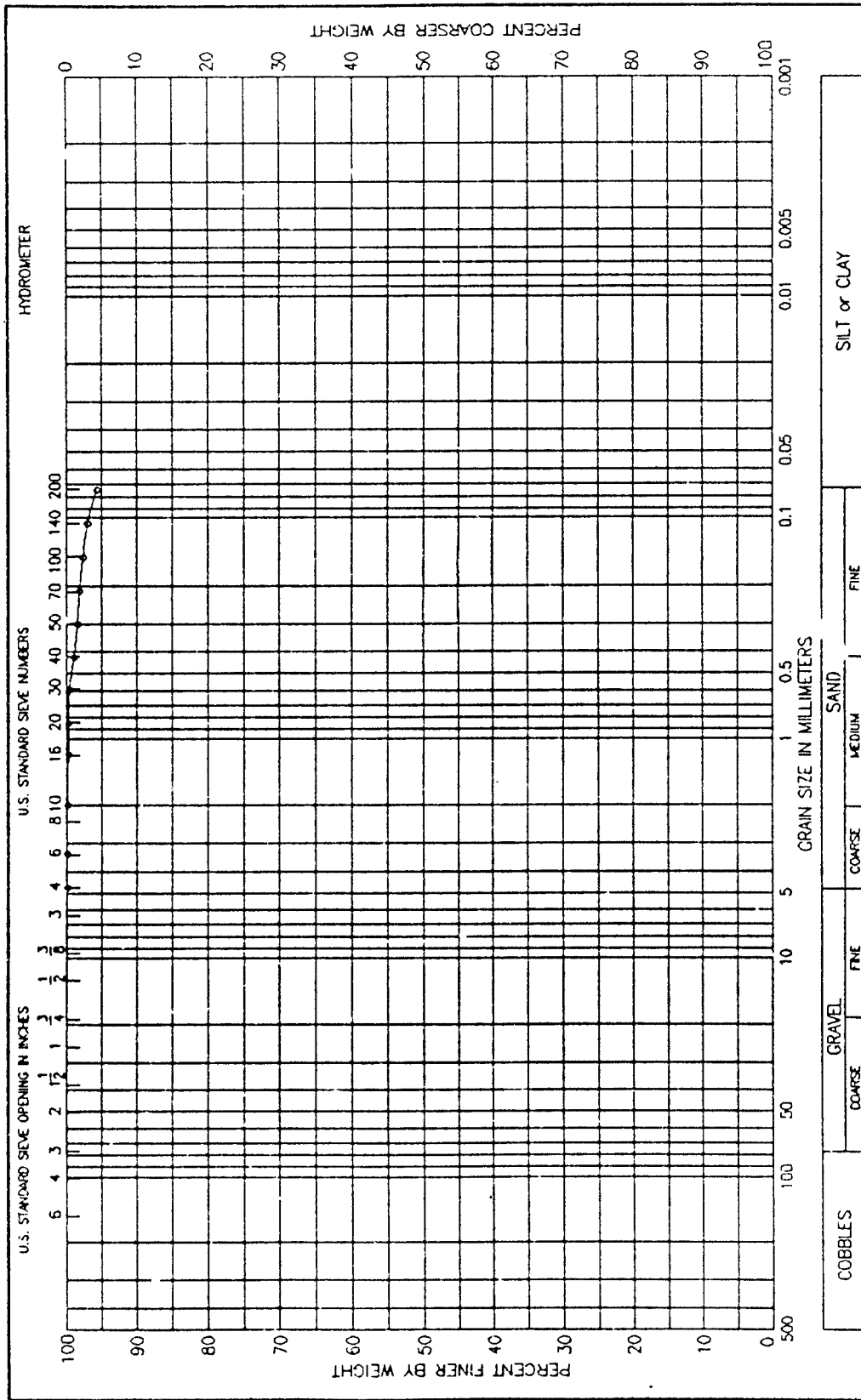




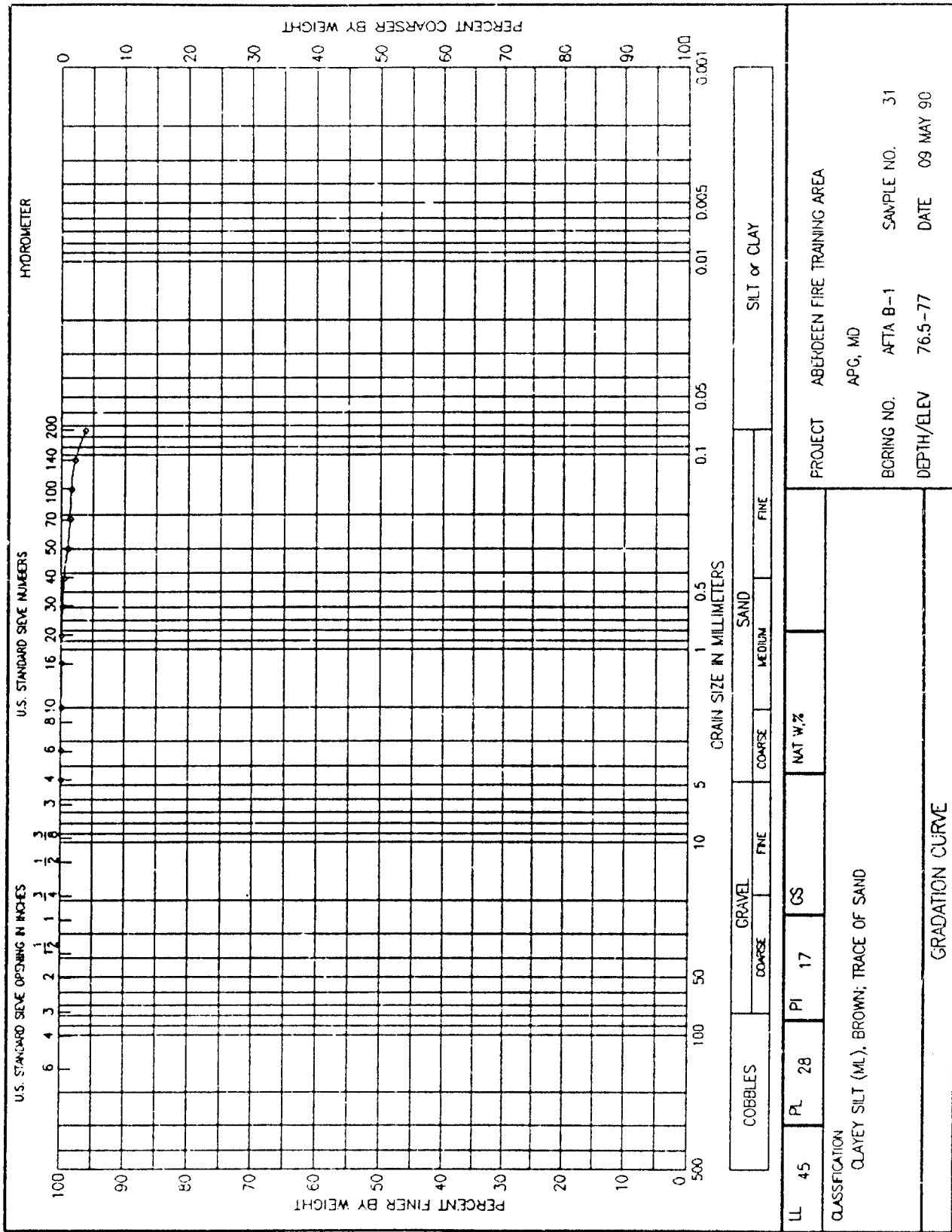


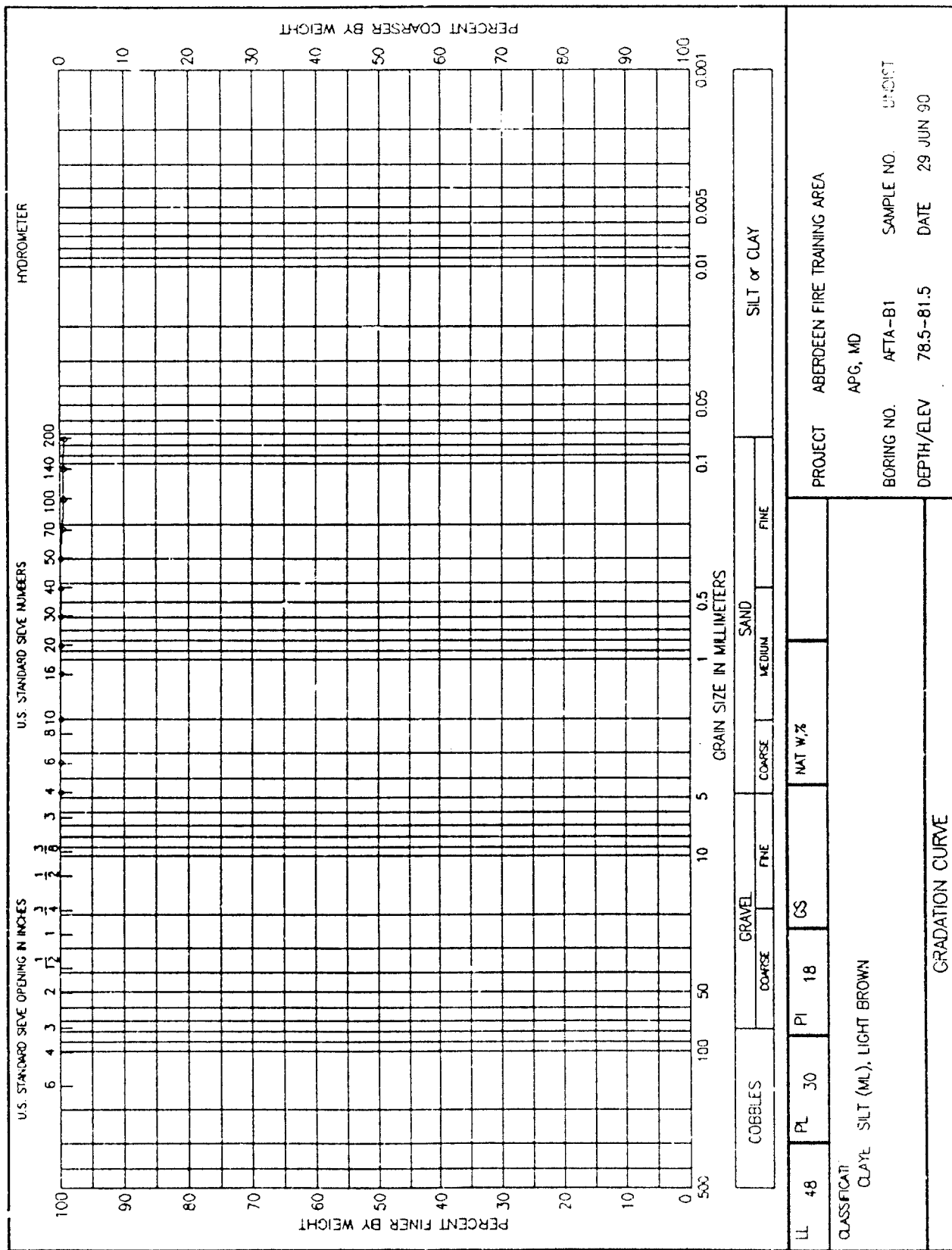
COBBLES GRAVEL SAND SILT or CLAY	
LL 35 PL 22 PI 13 GS	NAT W% 35 22 13 30
CLASSIFICATION CLAYEY SAND (SC), BROWN; WITH GRAVEL INSUFFICIENT SAMPLE FOR ACCURATE GRADATION	
PROJECT ABERDEEN FIRE TRAINING AREA AFG, MD	BORING NO. AFTA B-1 18-18.5
SAMPLE NO. 12	DATE 09 MAY 90

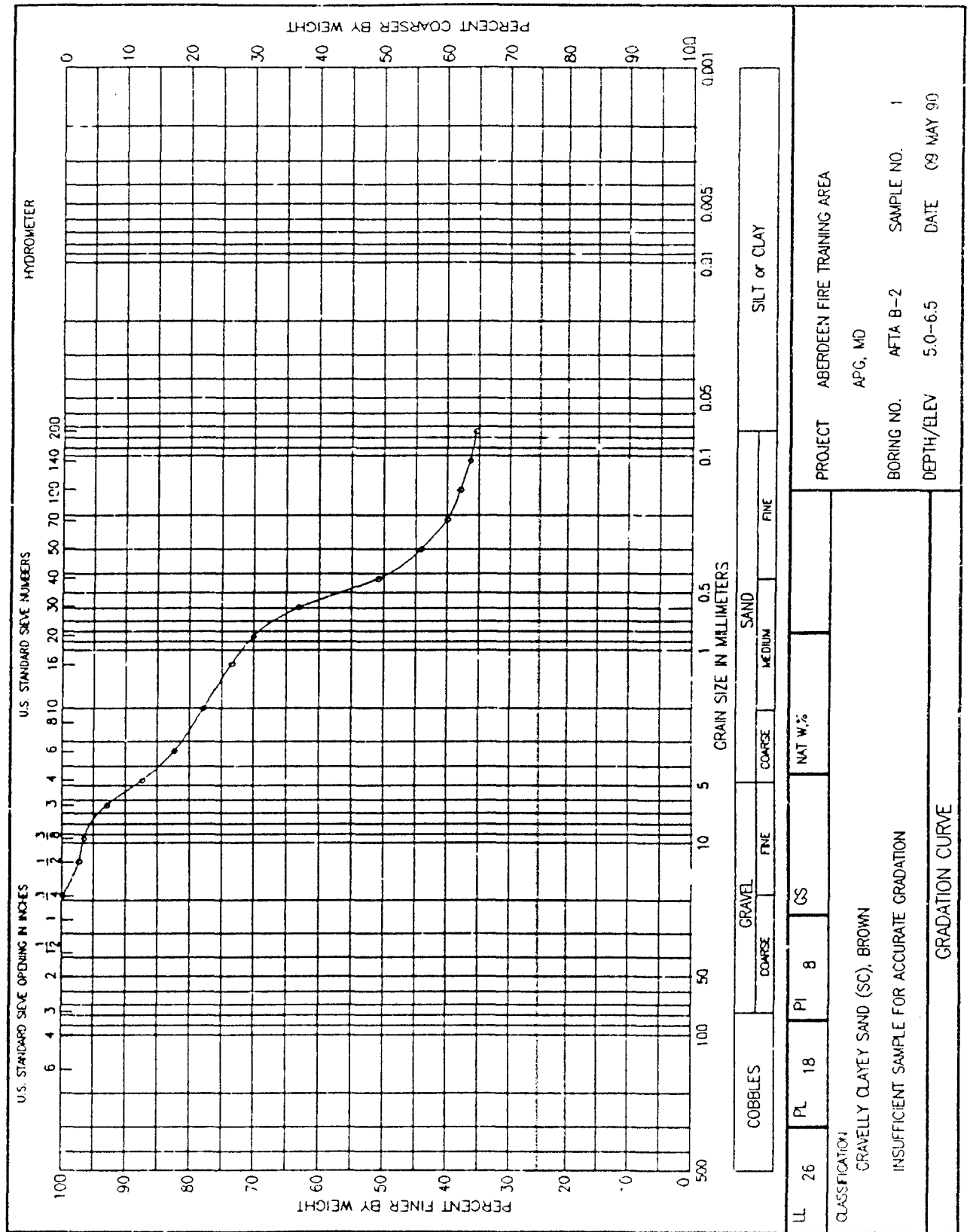


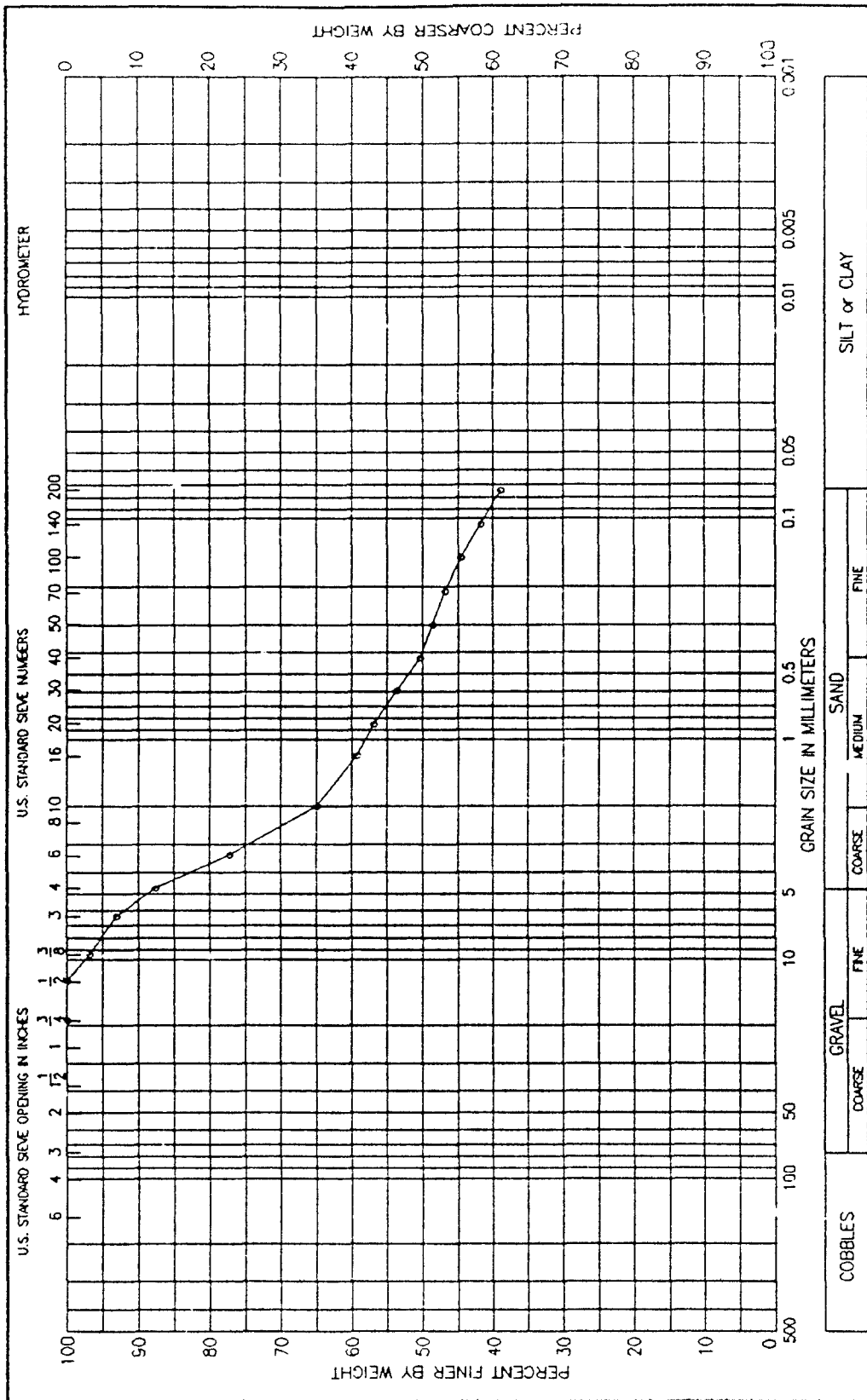


PROJECT		ABERDEEN FIRE TRAINING AREA			
APG, MD					
BORING NO.	AFTA B-1	SAMPLE NO.	30		
DEPTH/ELEV	74.7-75.5	DATE	09 MAY 90		
CLASSIFICATION					
CLAY (CH), BROWN; TRACE OF SAND					
GRADATION CURVE					

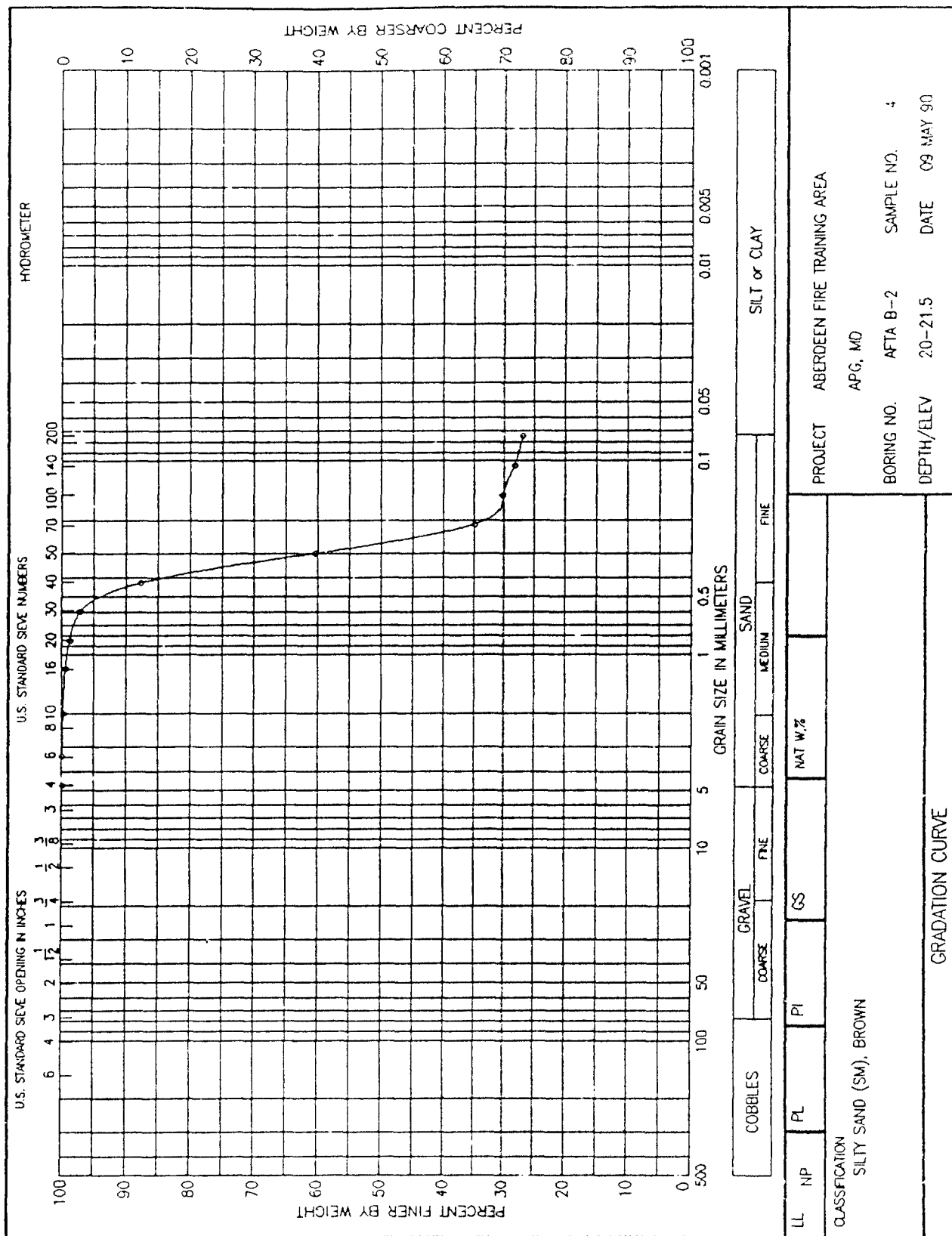






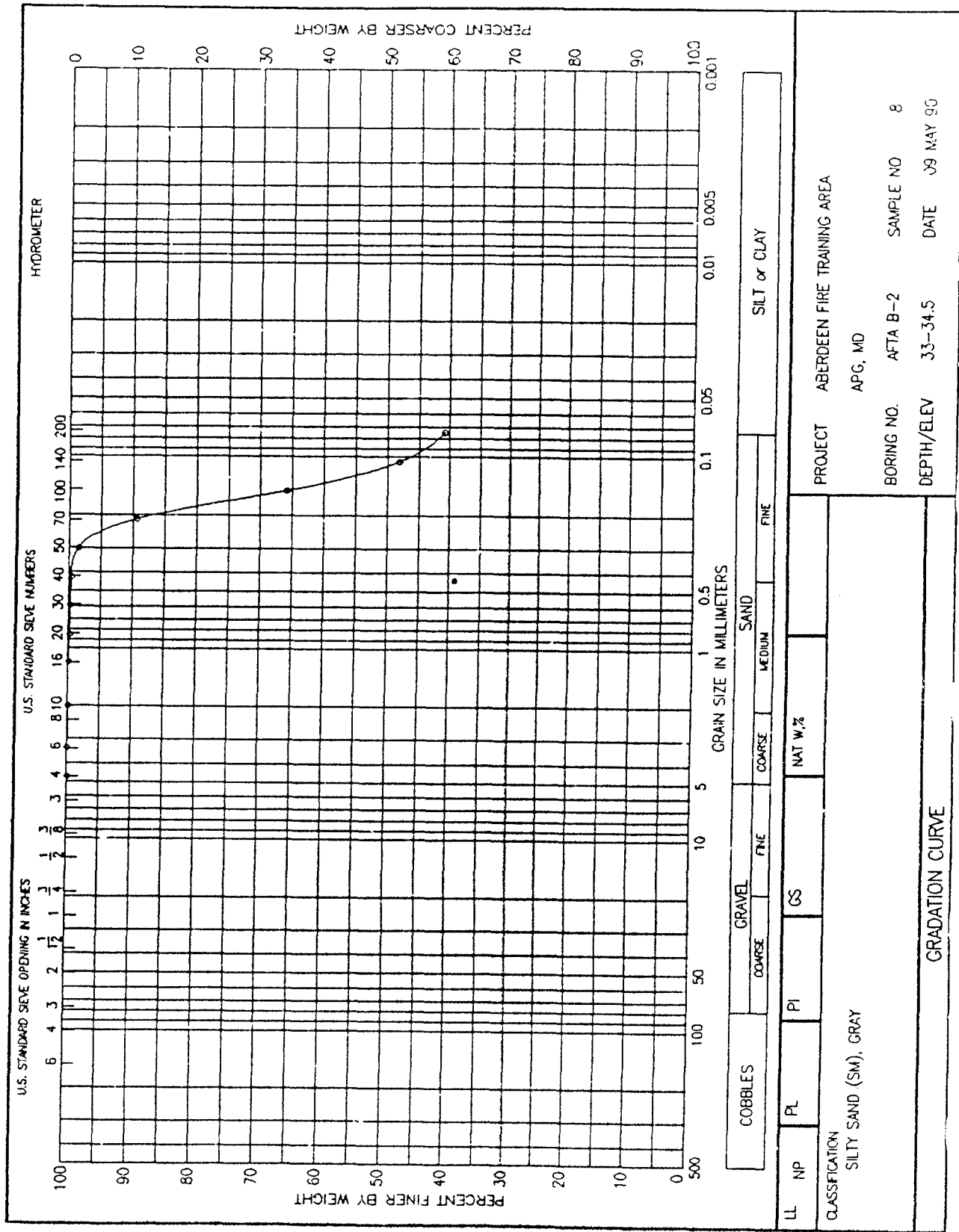


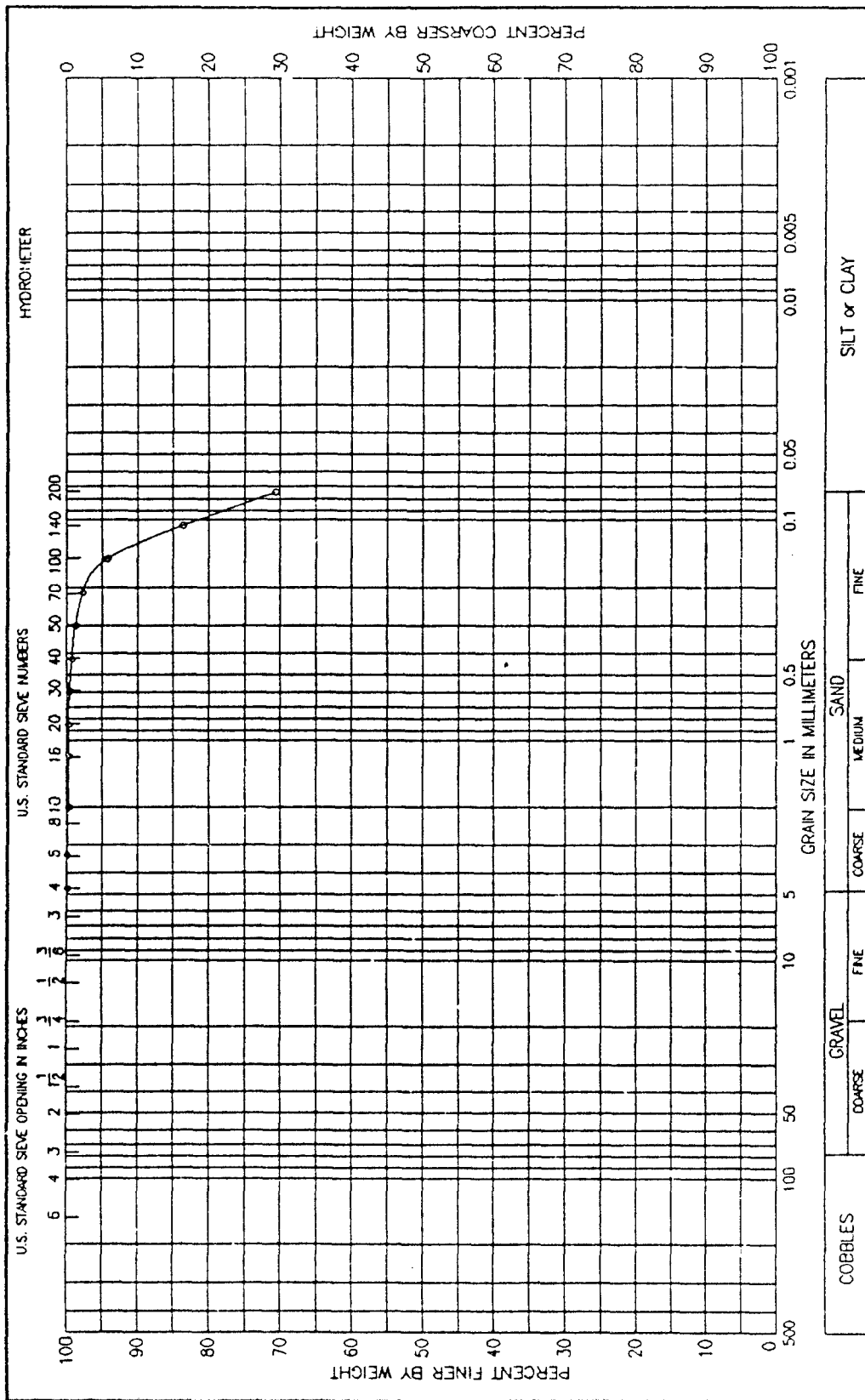
<b>COBBLES</b> COARSE FINE		<b>SAND</b> COARSE MEDIUM FINE		<b>SILT or CLAY</b>	
LL 39	PL 23	PI 16	GS	PROJECT ABERDEEN FIRE TRAINING AREA APG, MD	
CLASSIFICATION GRAVELLY CLAYEY SAND (SC), BROWN				BORING NO. AFTA B-2 SAMPLE NO. 2 DATE 100.1.1	







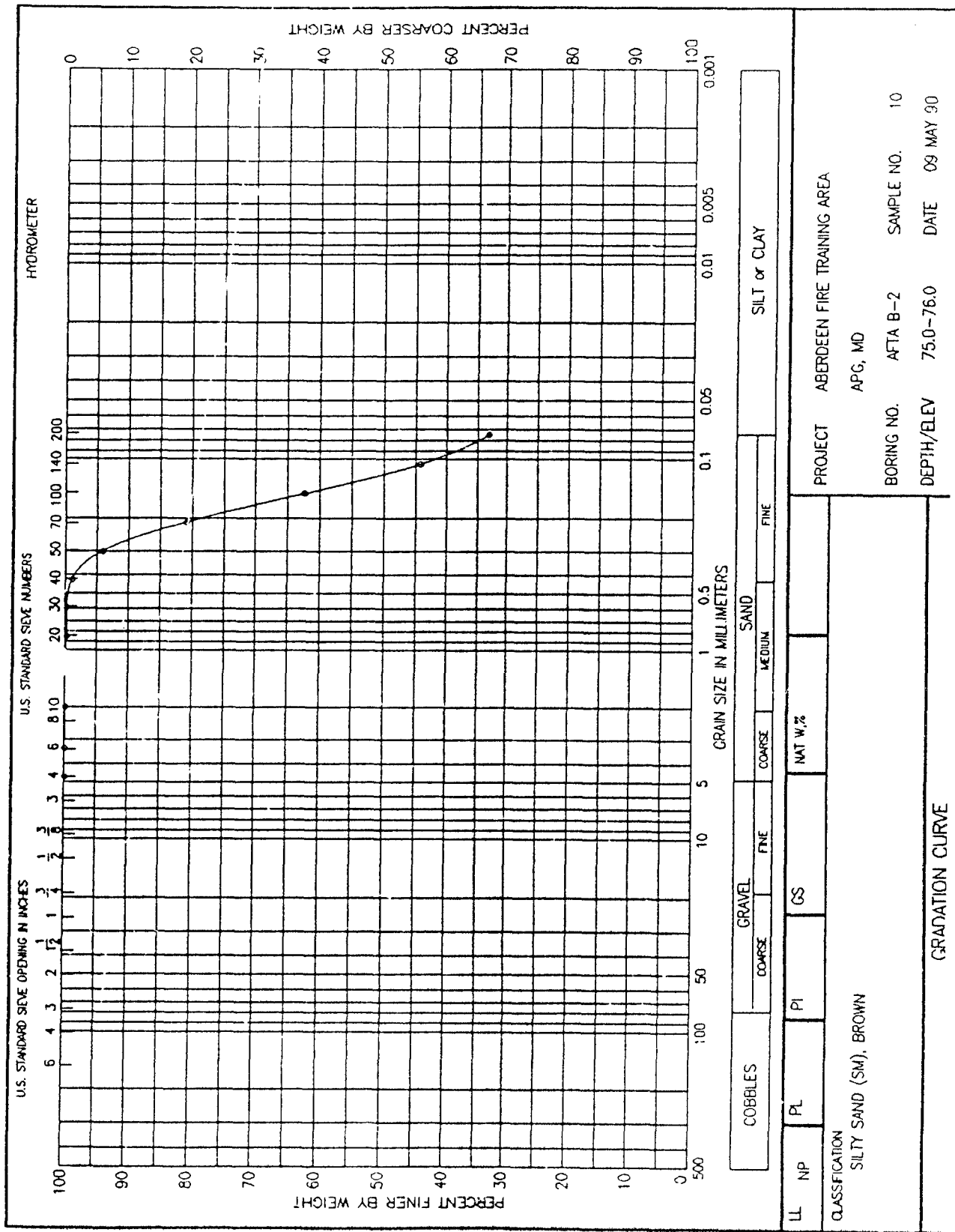


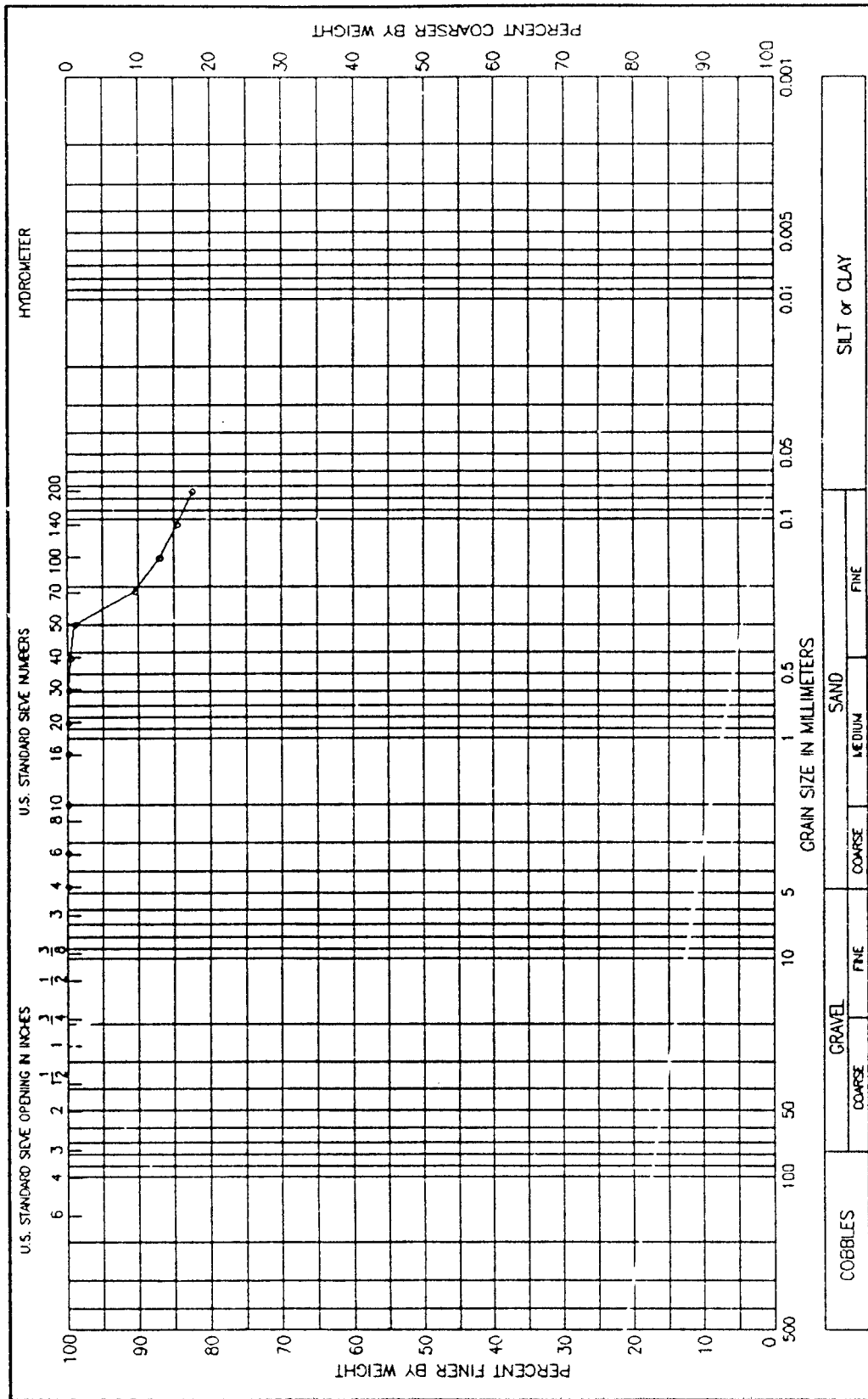


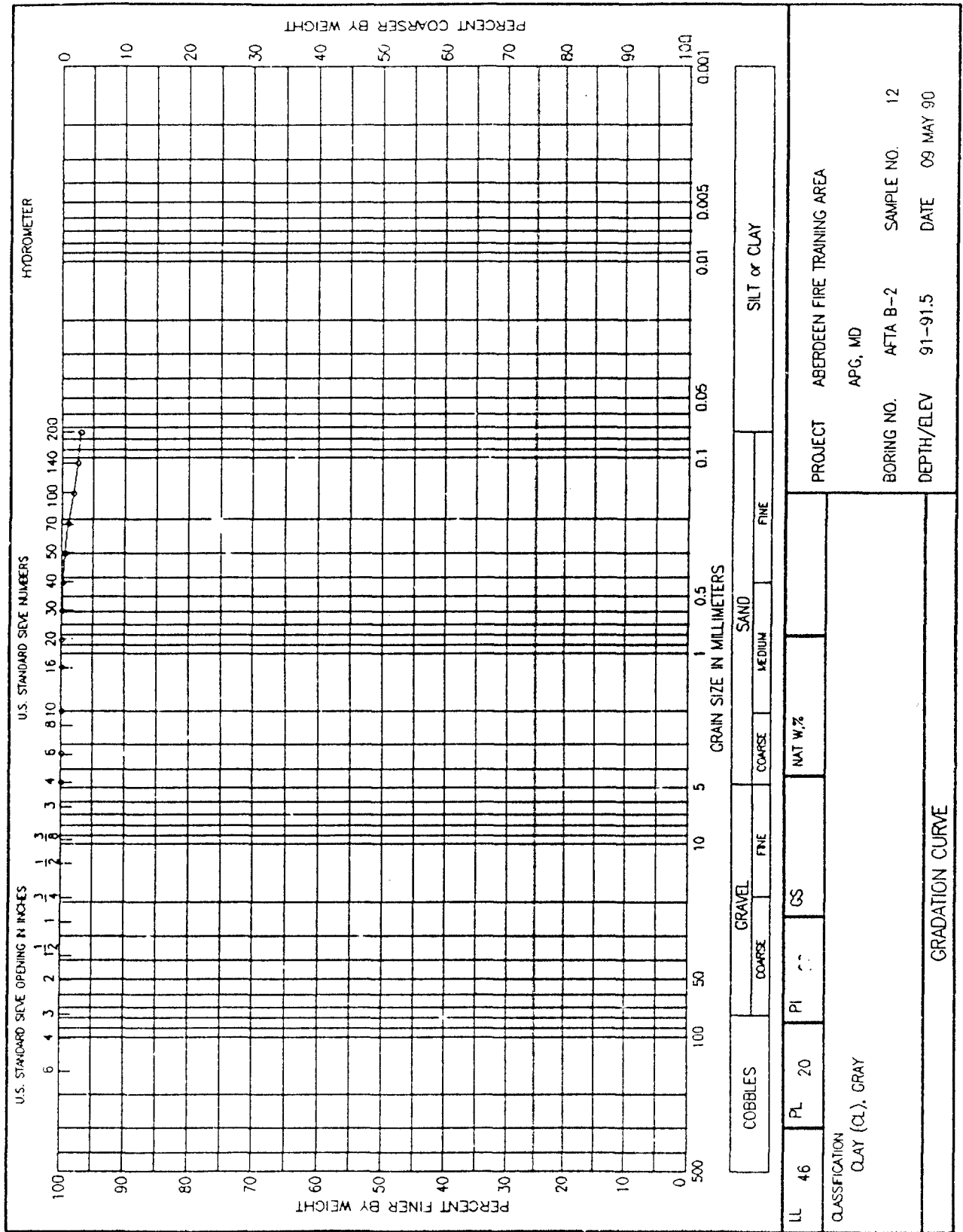
PROJECT		ABERDEEN FIRE TRAINING AREA	
BORING NO.		AFTA B-2	
SAMPLE NO.		9	
DEPTH/ELEV		70.5-71.0	
DATE		03 MAY 90	

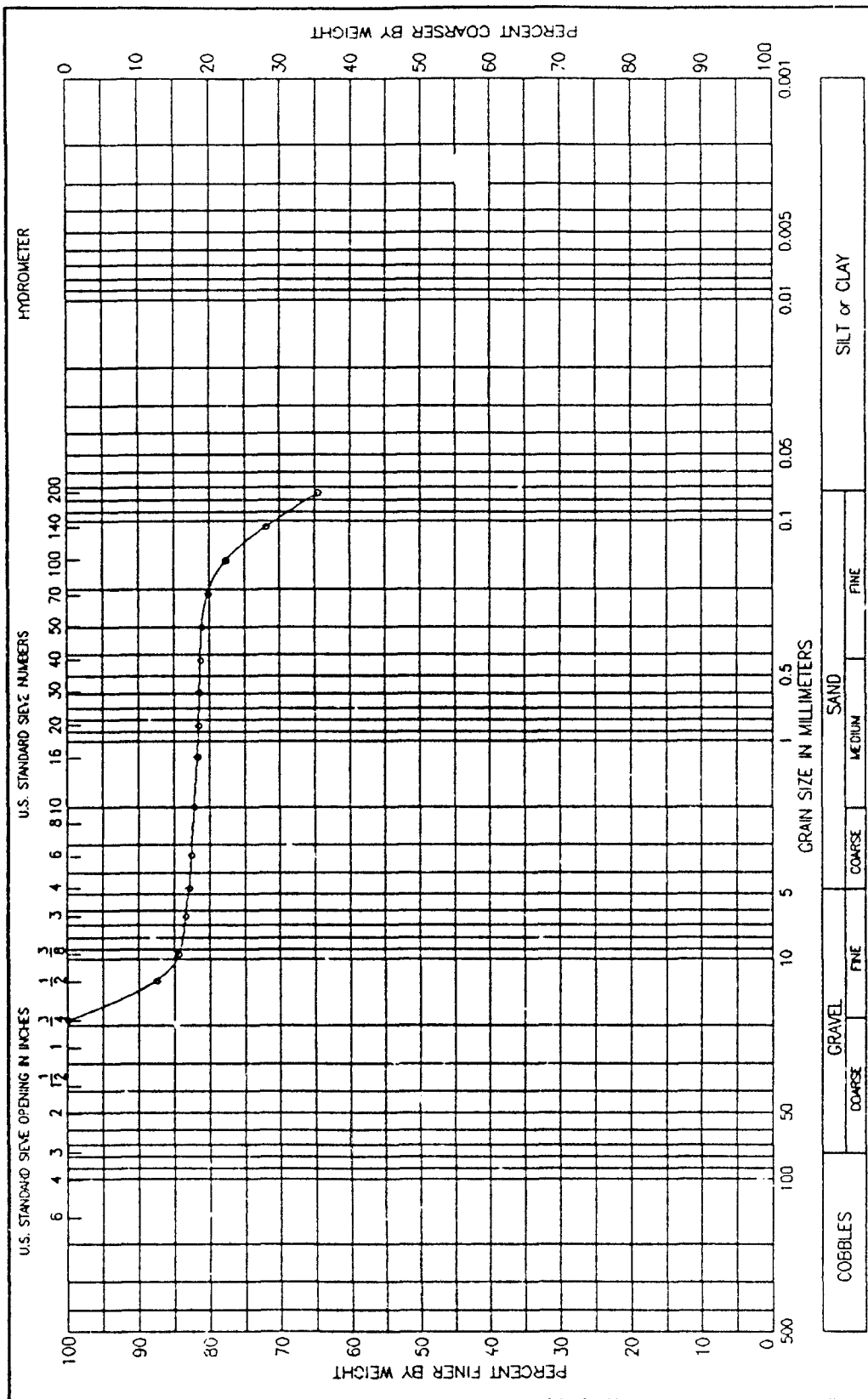
  

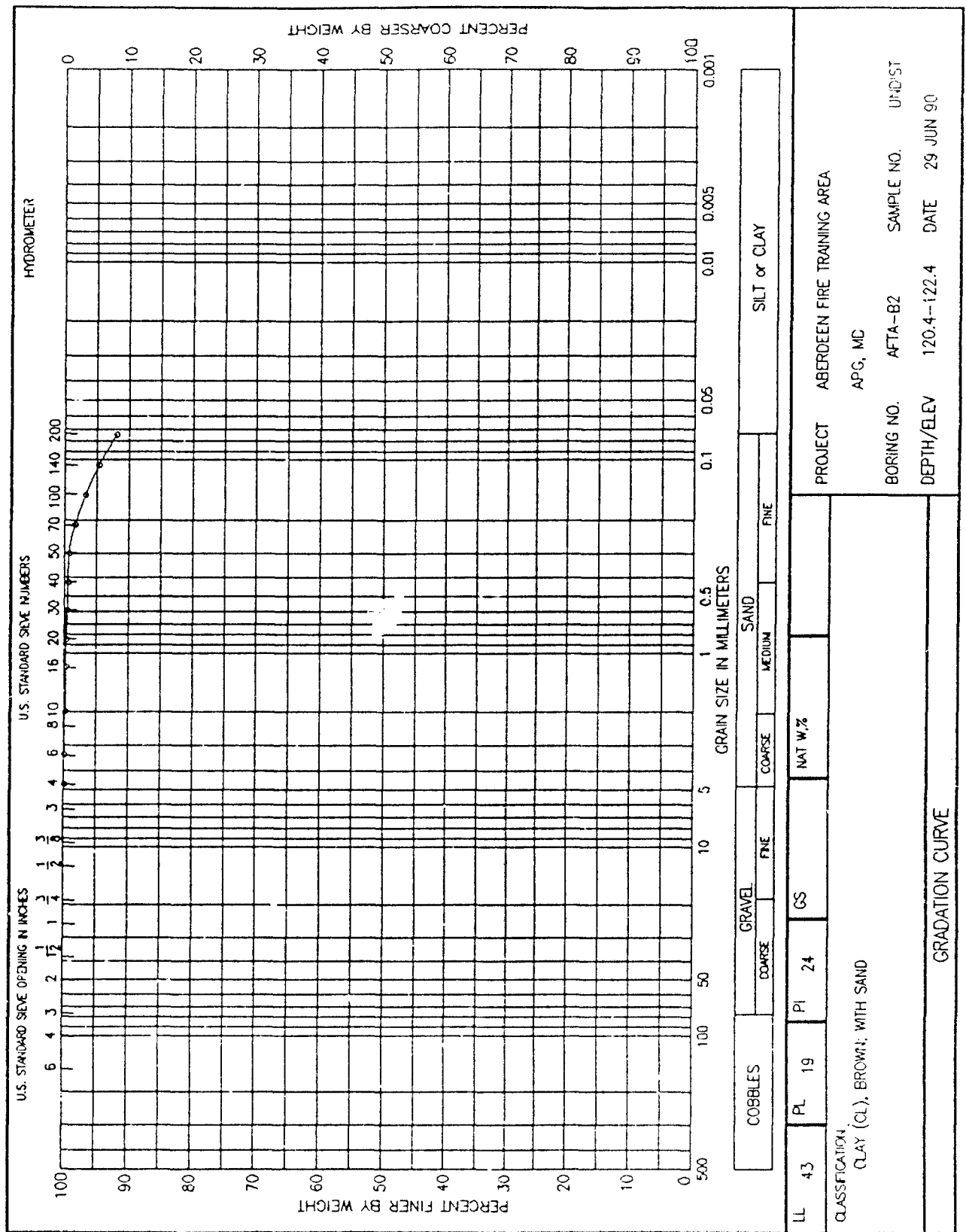
LL	29	PL	21	PI	8	GS	NAT W. %
CLASSIFICATION							
SANDY CLAY (CL), GRAY							



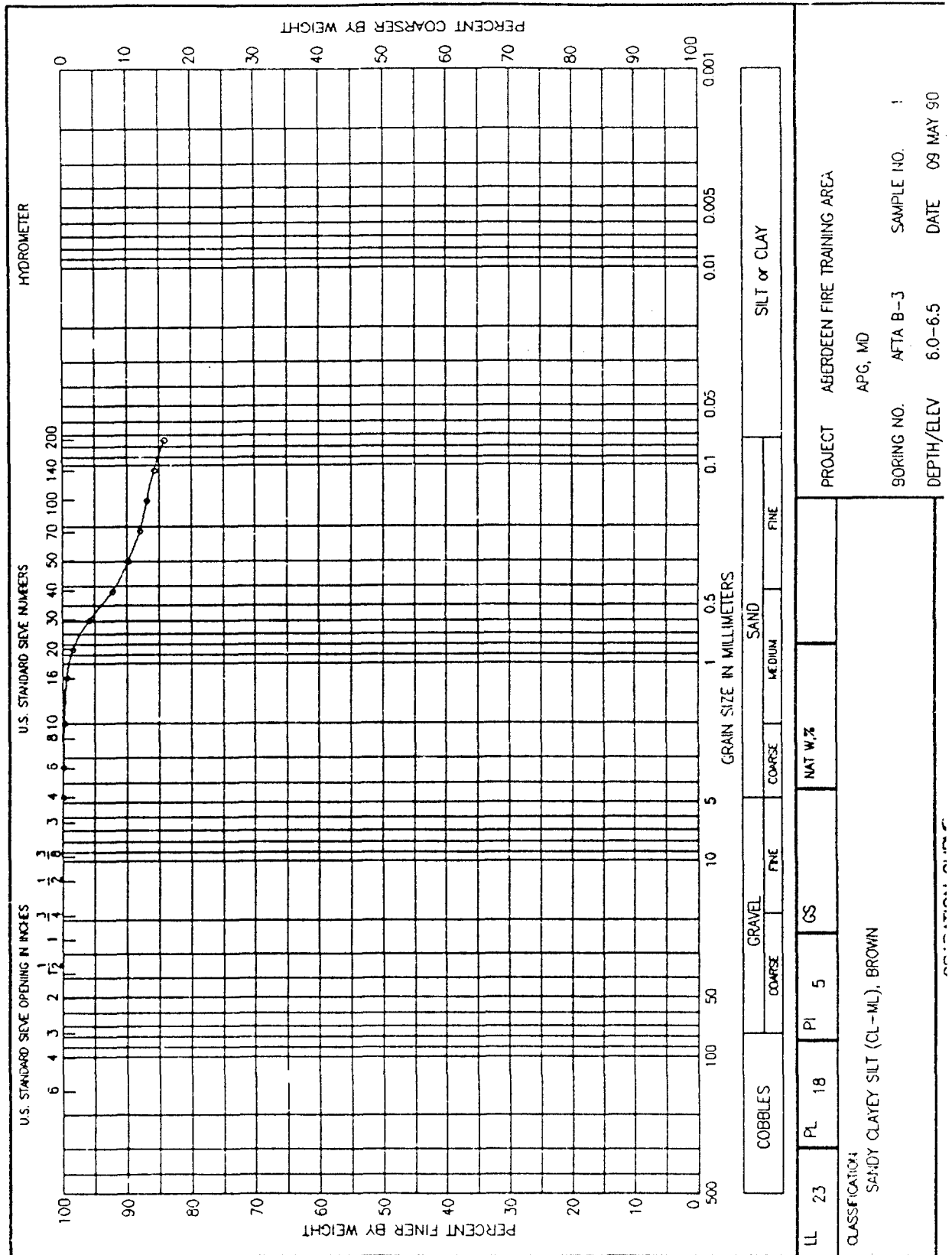




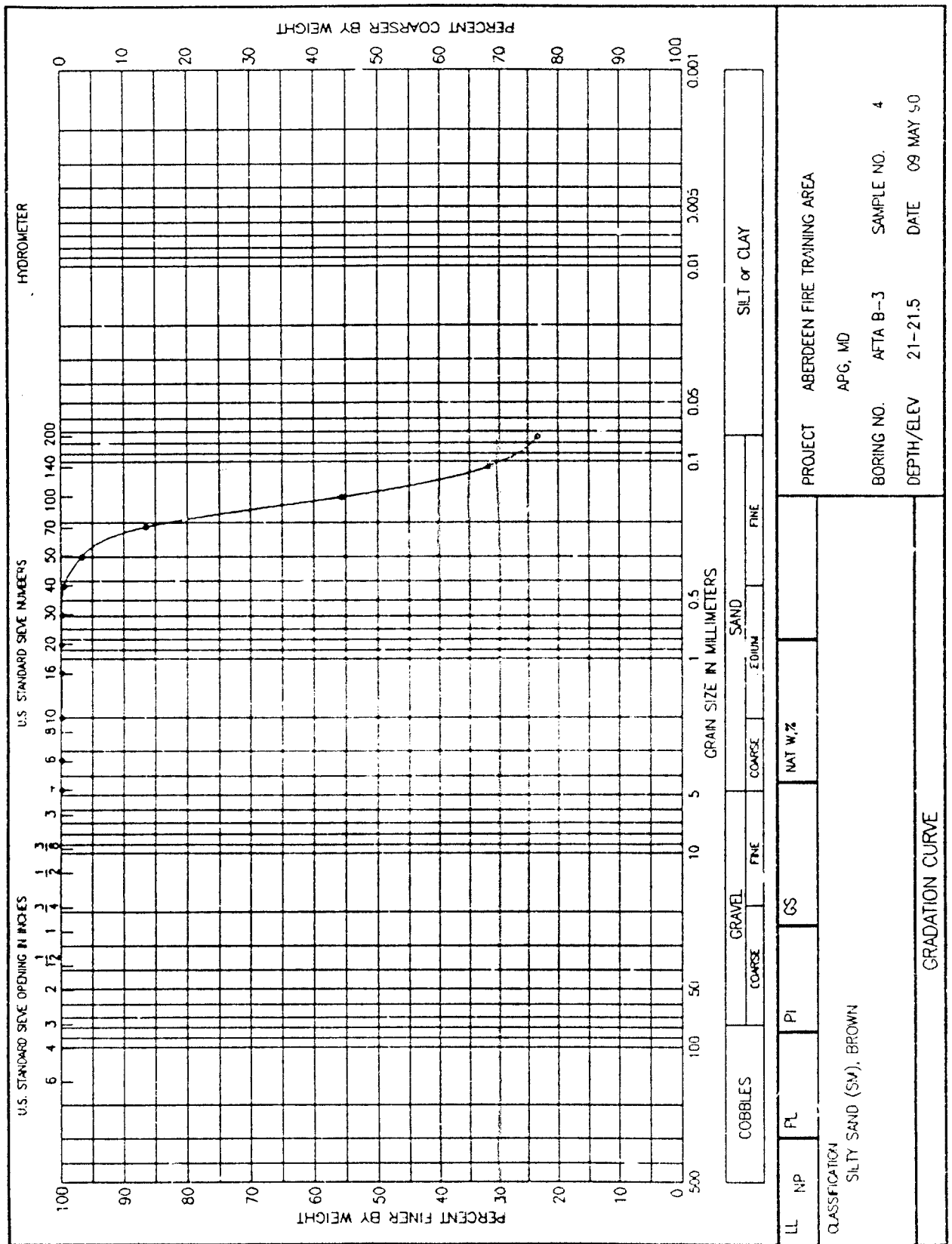


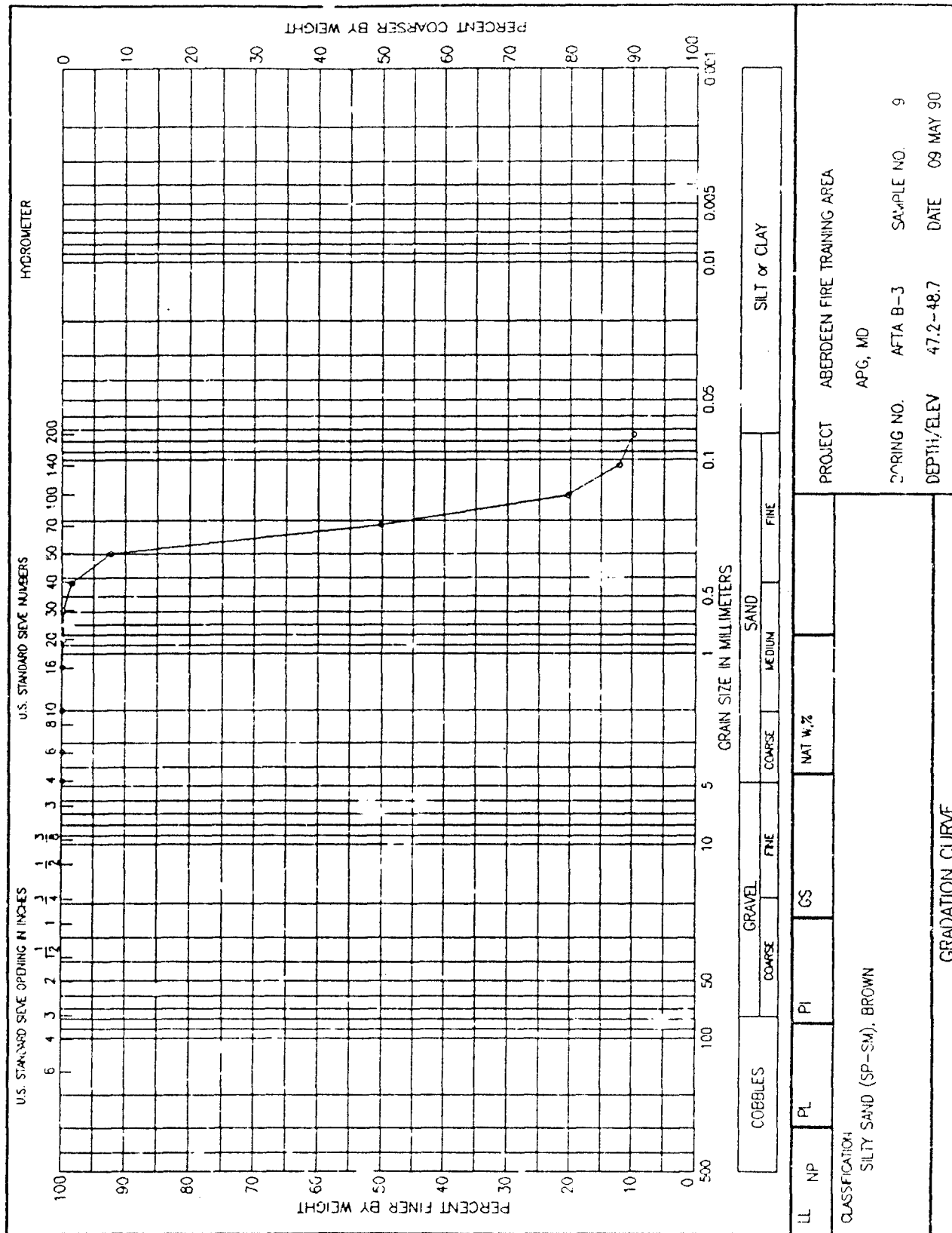


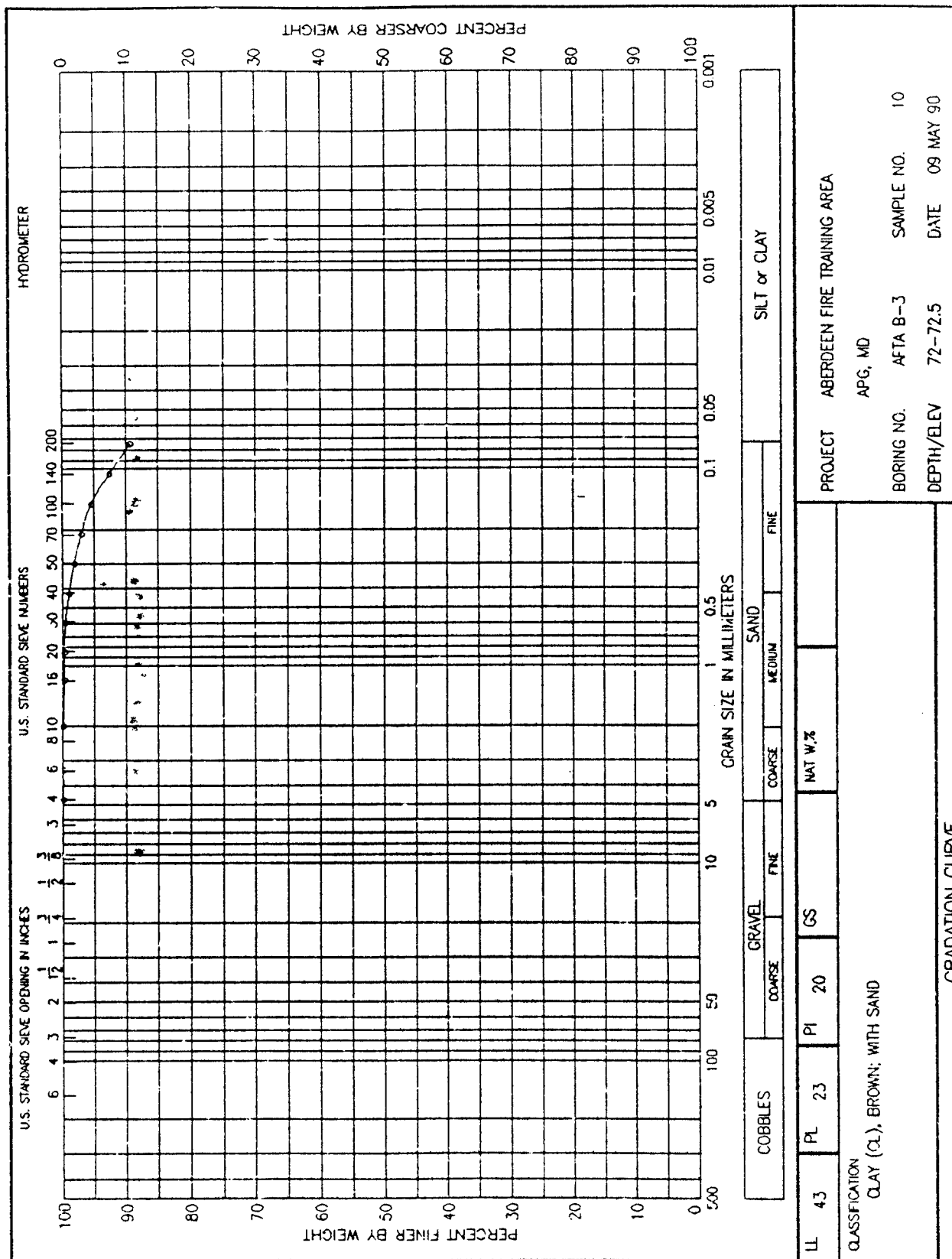








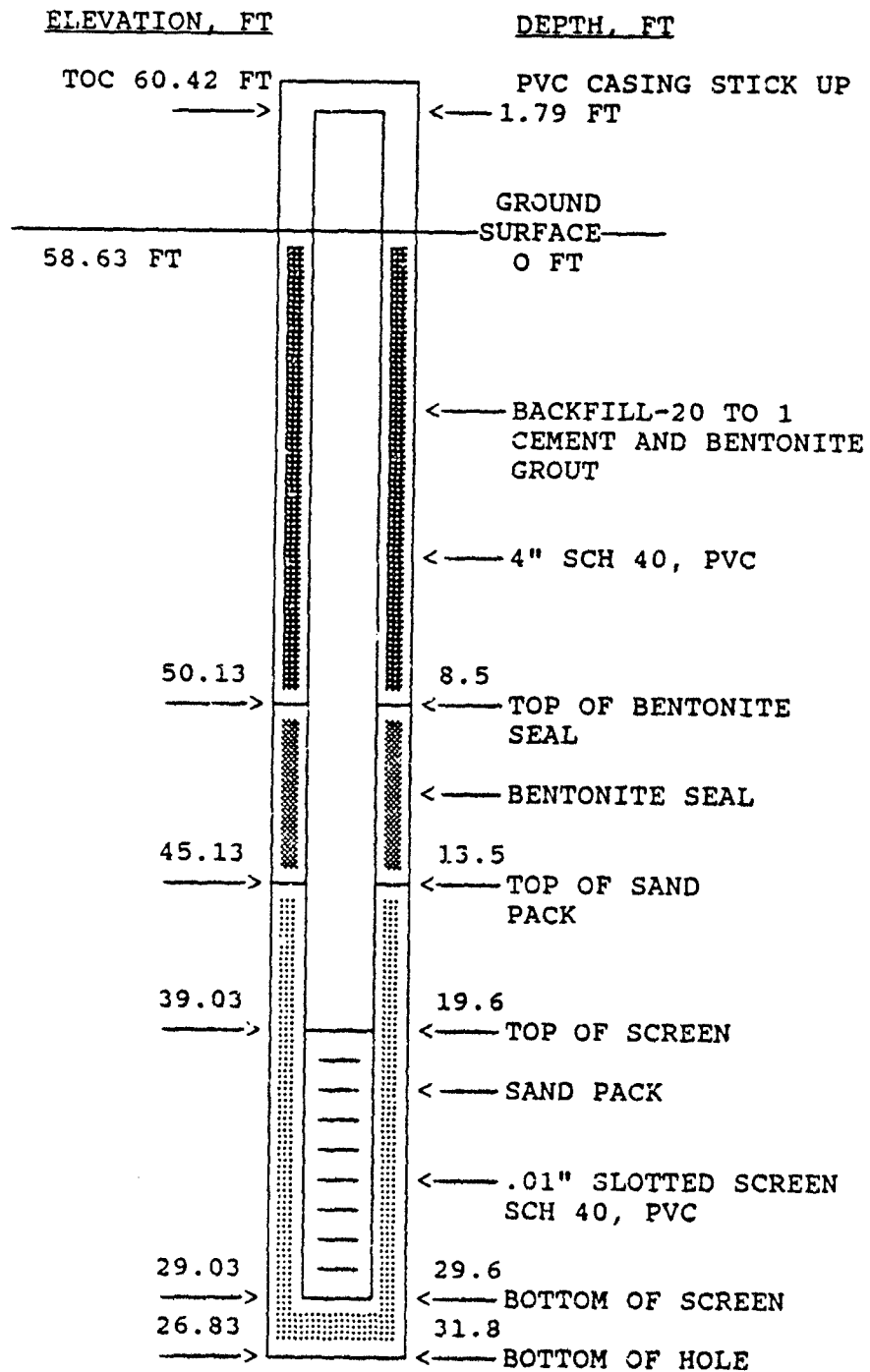




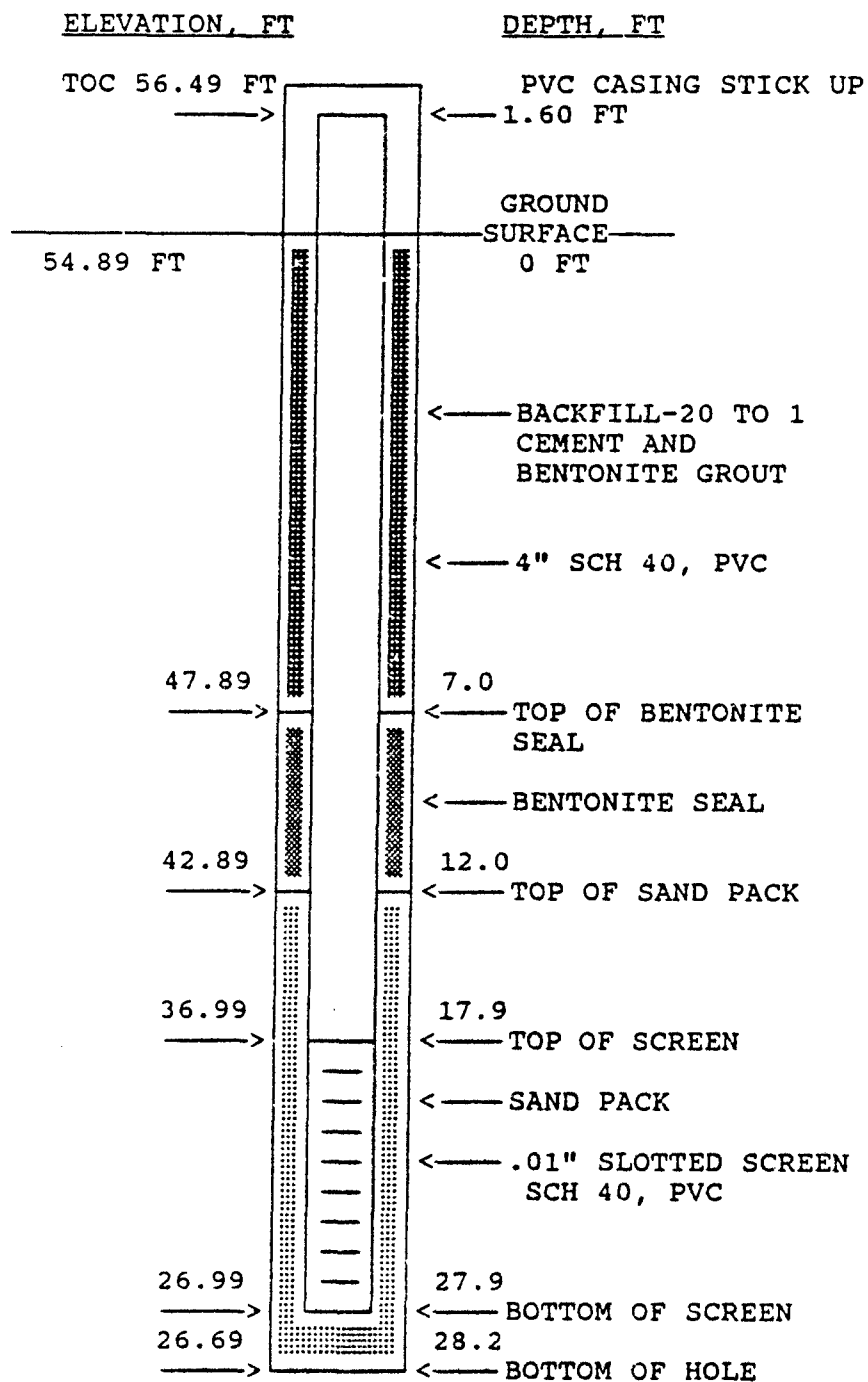
APPENDIX E

WELL CONSTRUCTION DIAGRAMS  
GROUND-WATER MONITOR WELLS FTA-M1 THRU FTA-M12

SITE: AFTA  
 WELL NUMBER: FTA-M1  
 COORDINATES: X -14777 ; Y 63613  
 DATE COMPLETE: 11/1/89

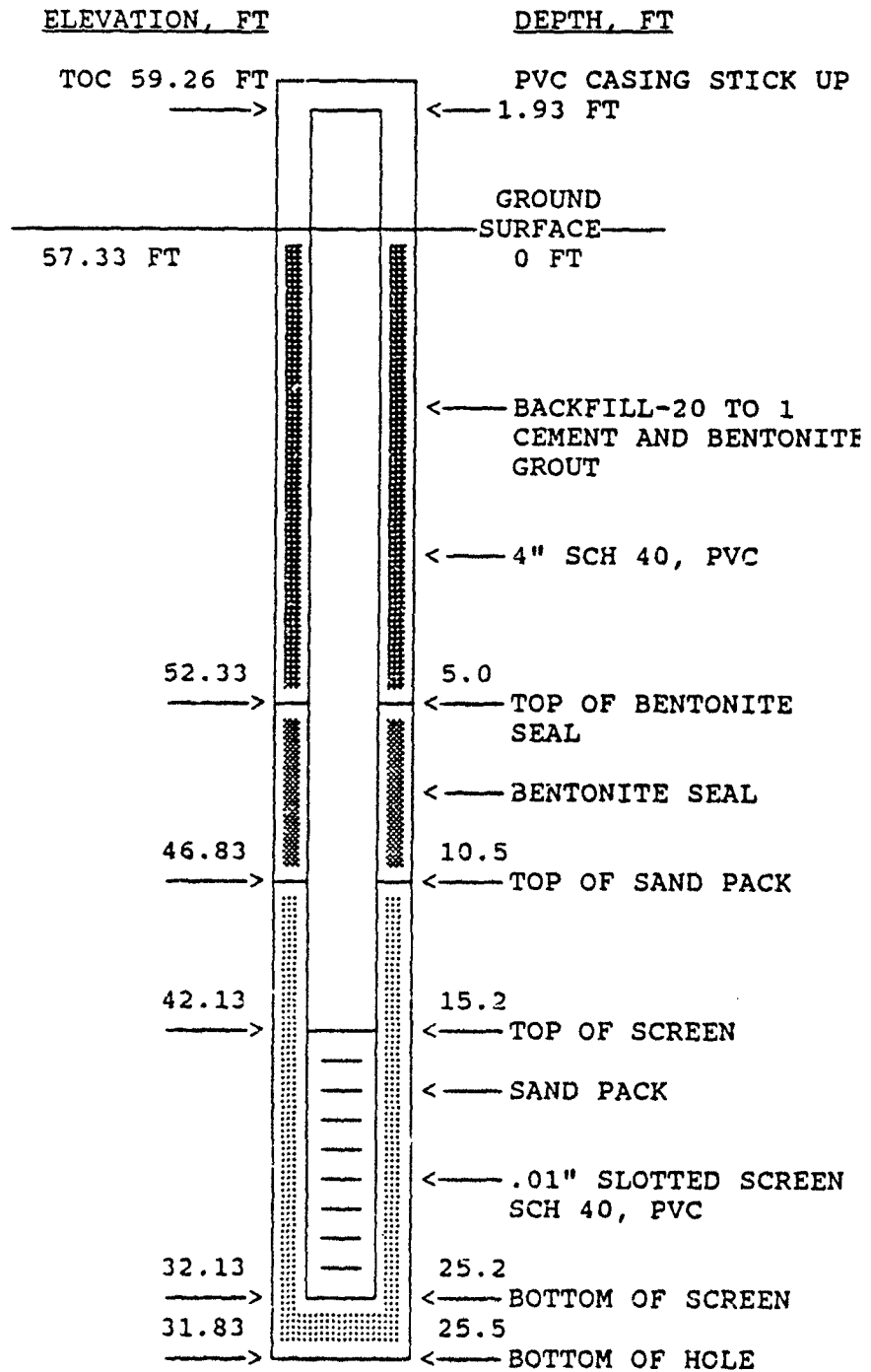


SITE: AFTA  
 WELL NUMBER: FTA-M2  
 COORDINATES: X -14443 ; Y 63994  
 DATE COMPLETE: 11/20/89

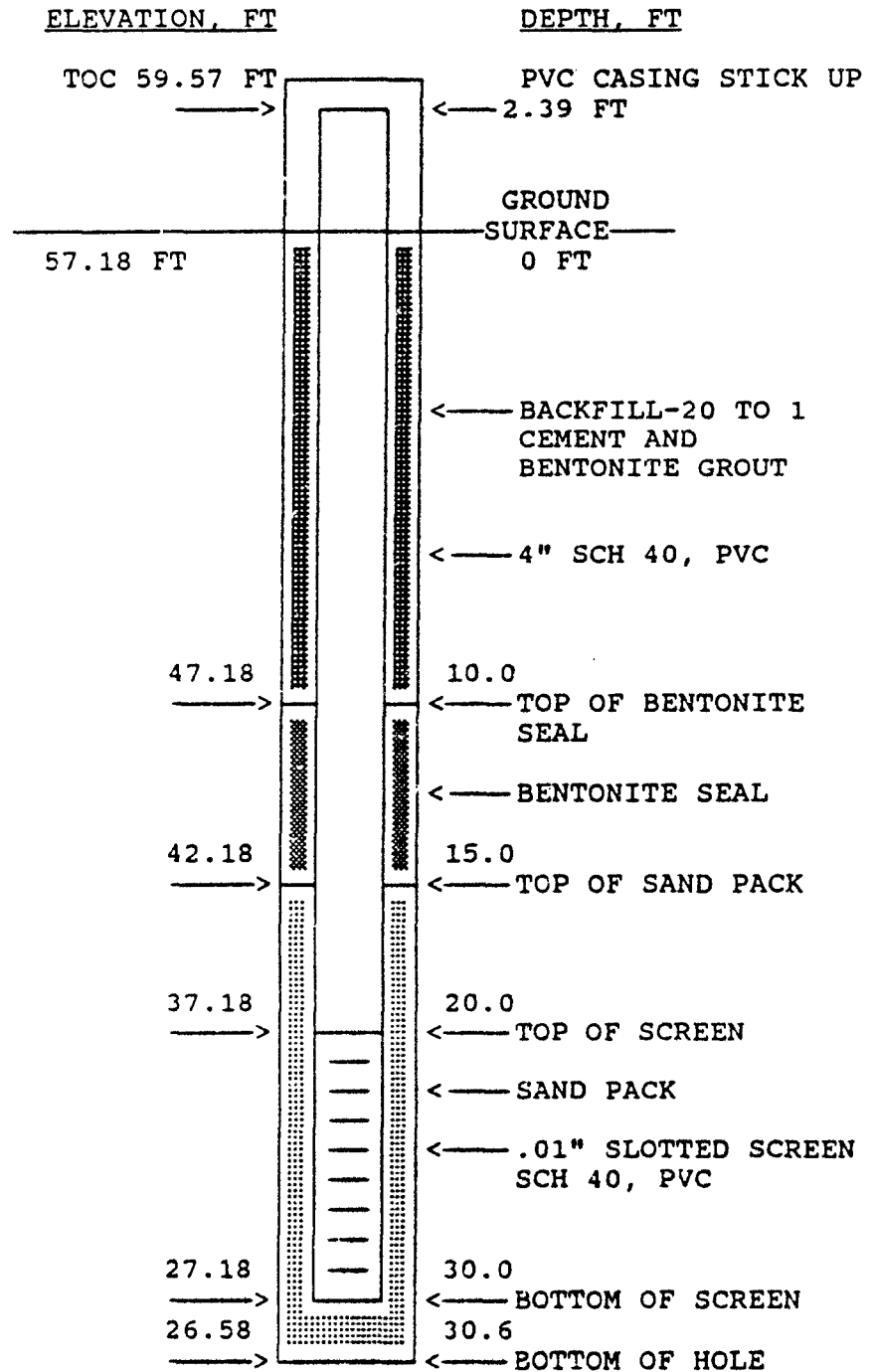




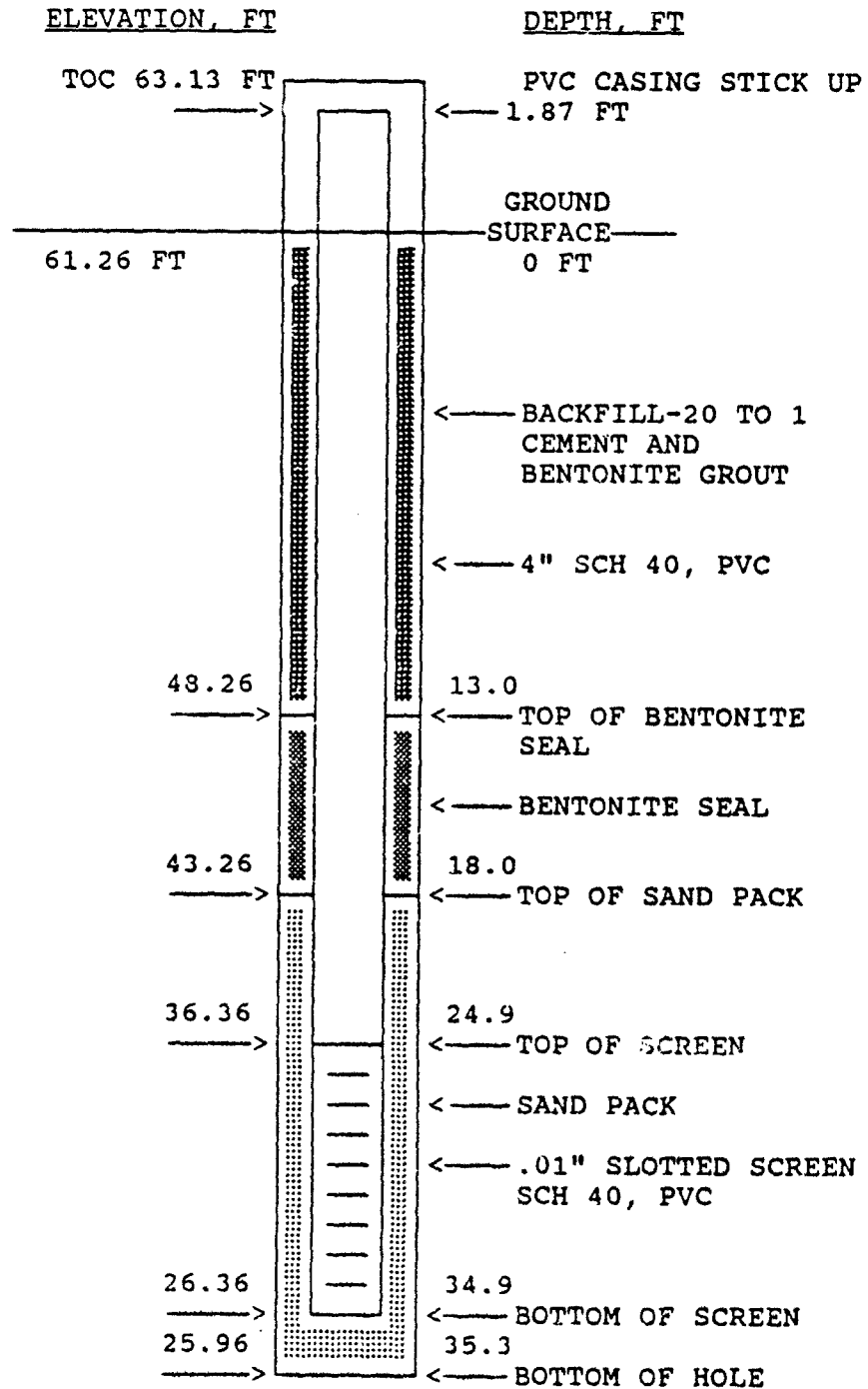
SITE: AFTA  
 WELL NUMBER: FTA-M3  
 COORDINATES: X -14213 ; Y 63530  
 DATE COMPLETE: 10/7/89



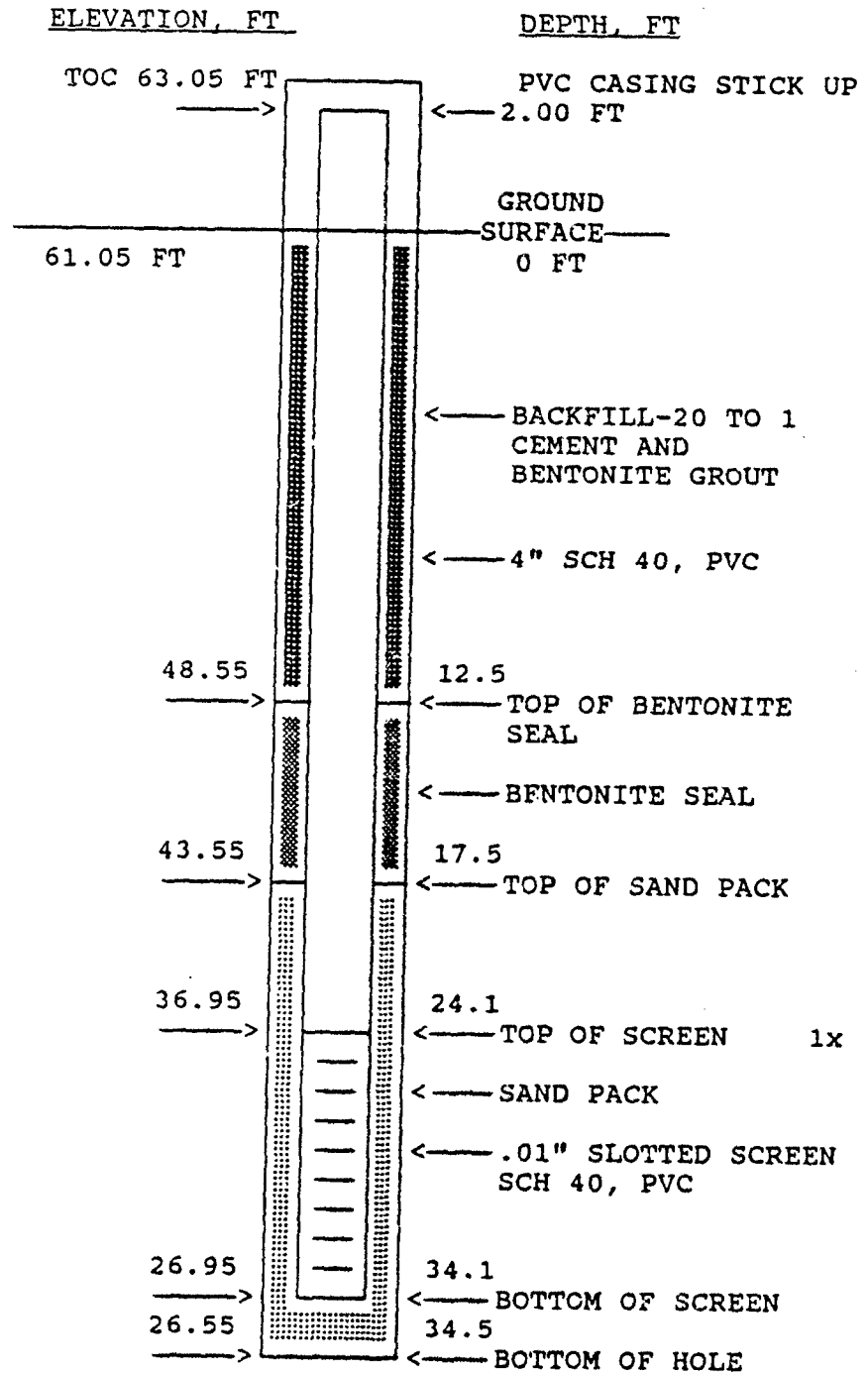
SITE: AFTA  
 WELL NUMBER: FTA-M4  
 COORDINATES: X -14230 ; Y 63517  
 DATE COMPLETE: 10/12/89



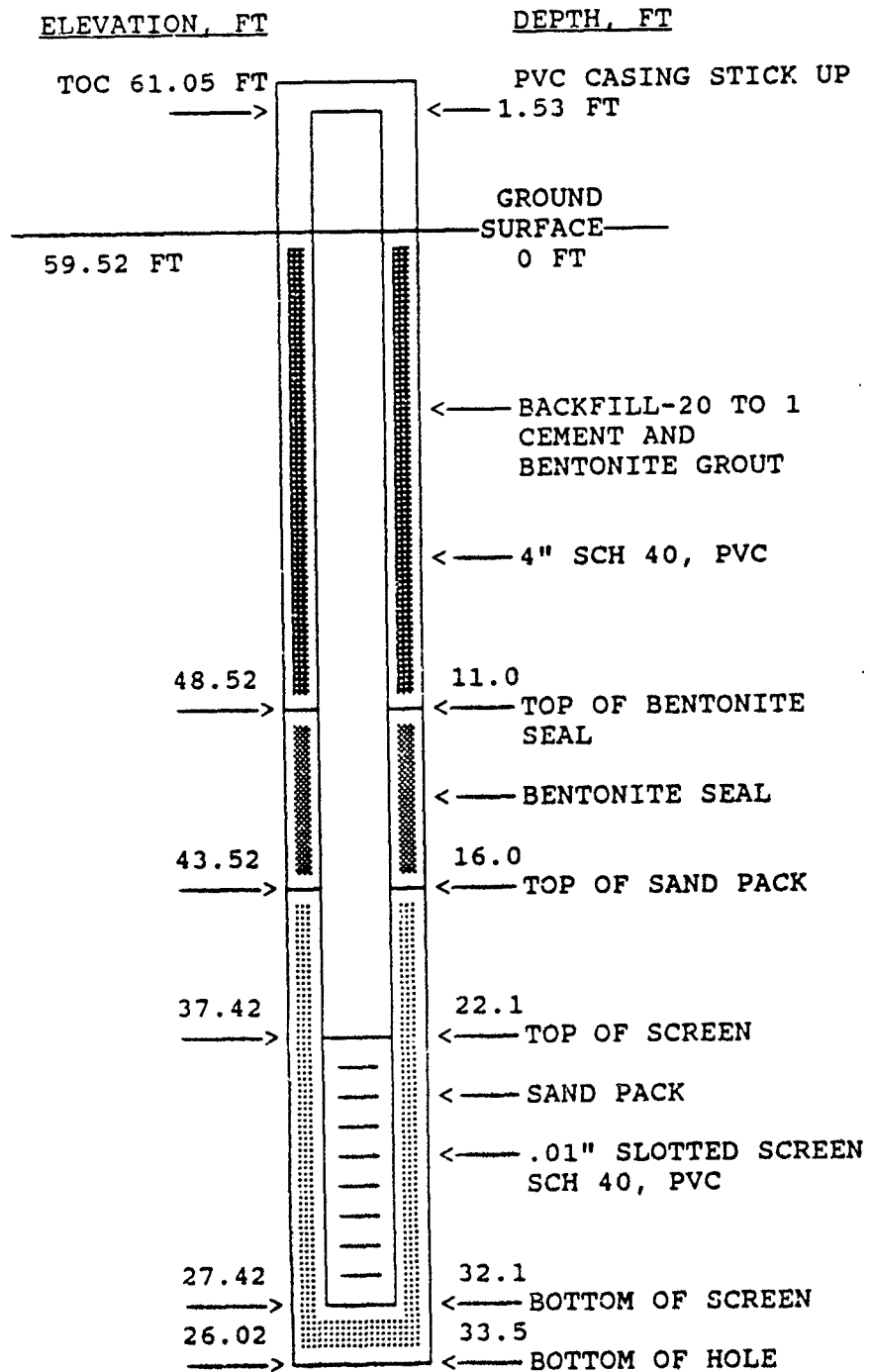
SITE: AFTA  
 WELL NUMBER: FTA-M5  
 COORDINATES: X -14445 ; Y 63219  
 DATE COMPLETE: 10/27/89



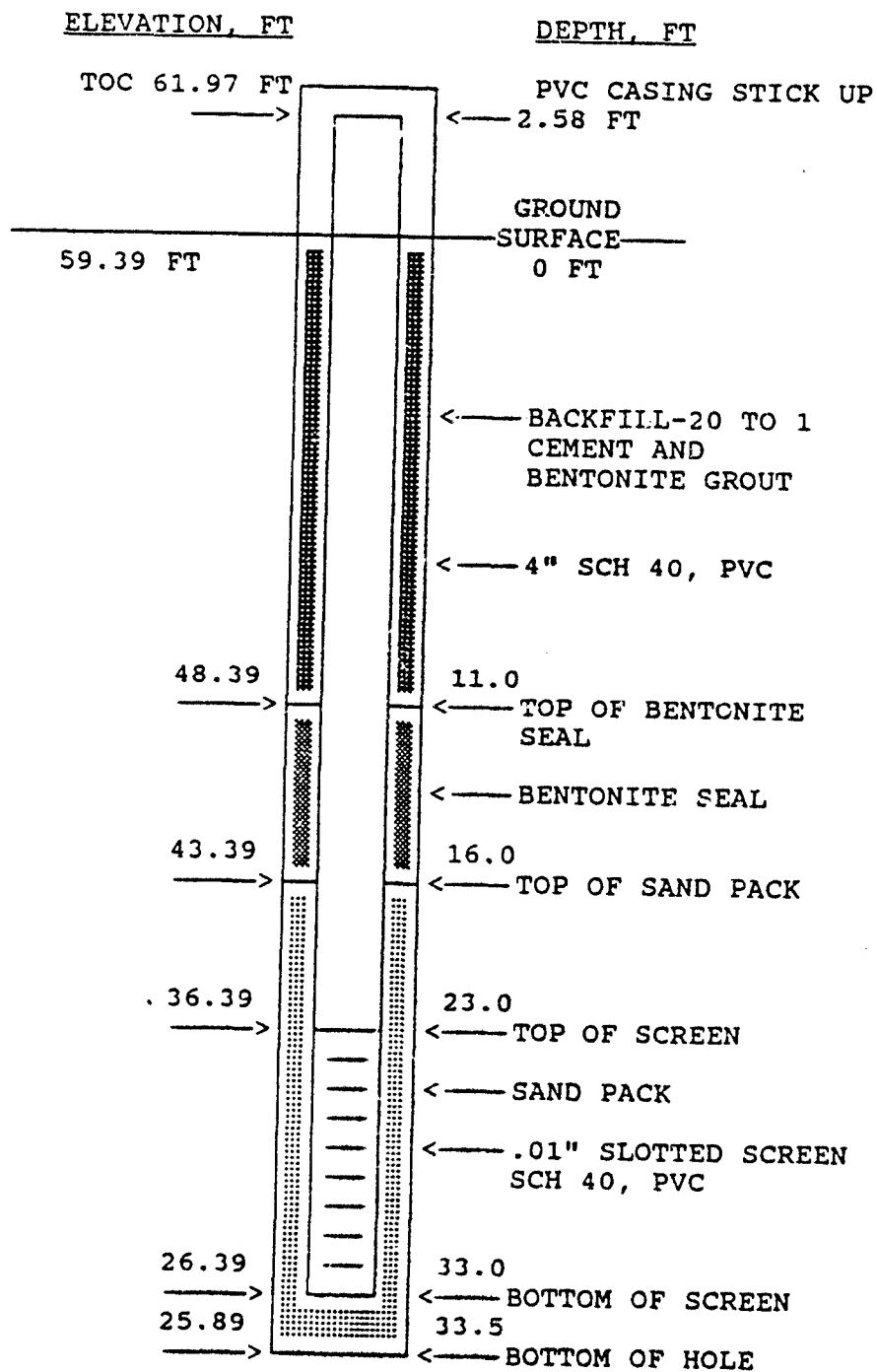
SITE: AFTA  
 WELL NUMBER: FTA-M6  
 COORDINATES: X -14632 ; Y 63274  
 DATE COMPLETE 10/28/89



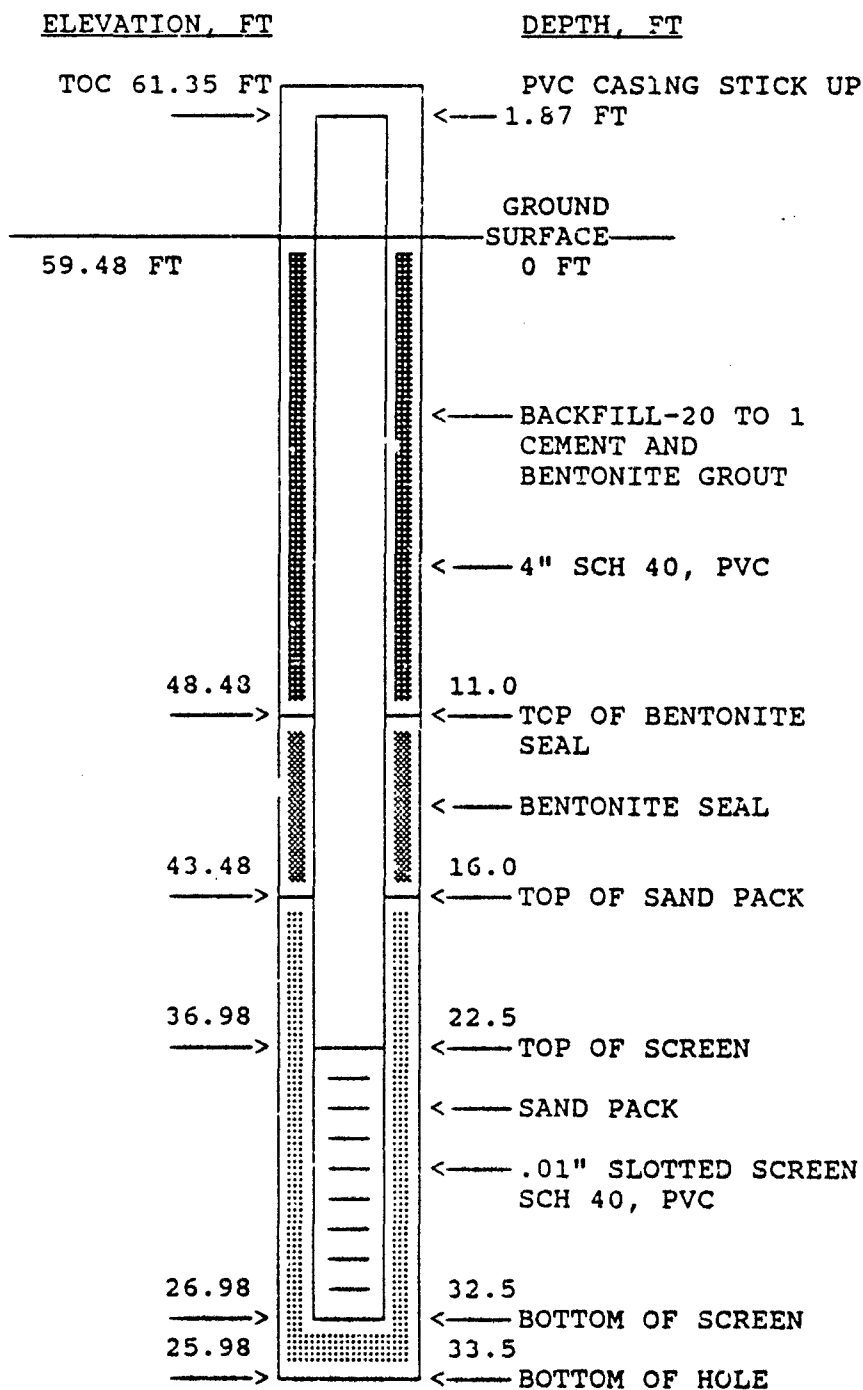
SITE: AFTA  
 WELL NUMBER: FTA-M7  
 COORDINATES: X -14808 ; Y 63342  
 DATE COMPLETE: 11/27/89



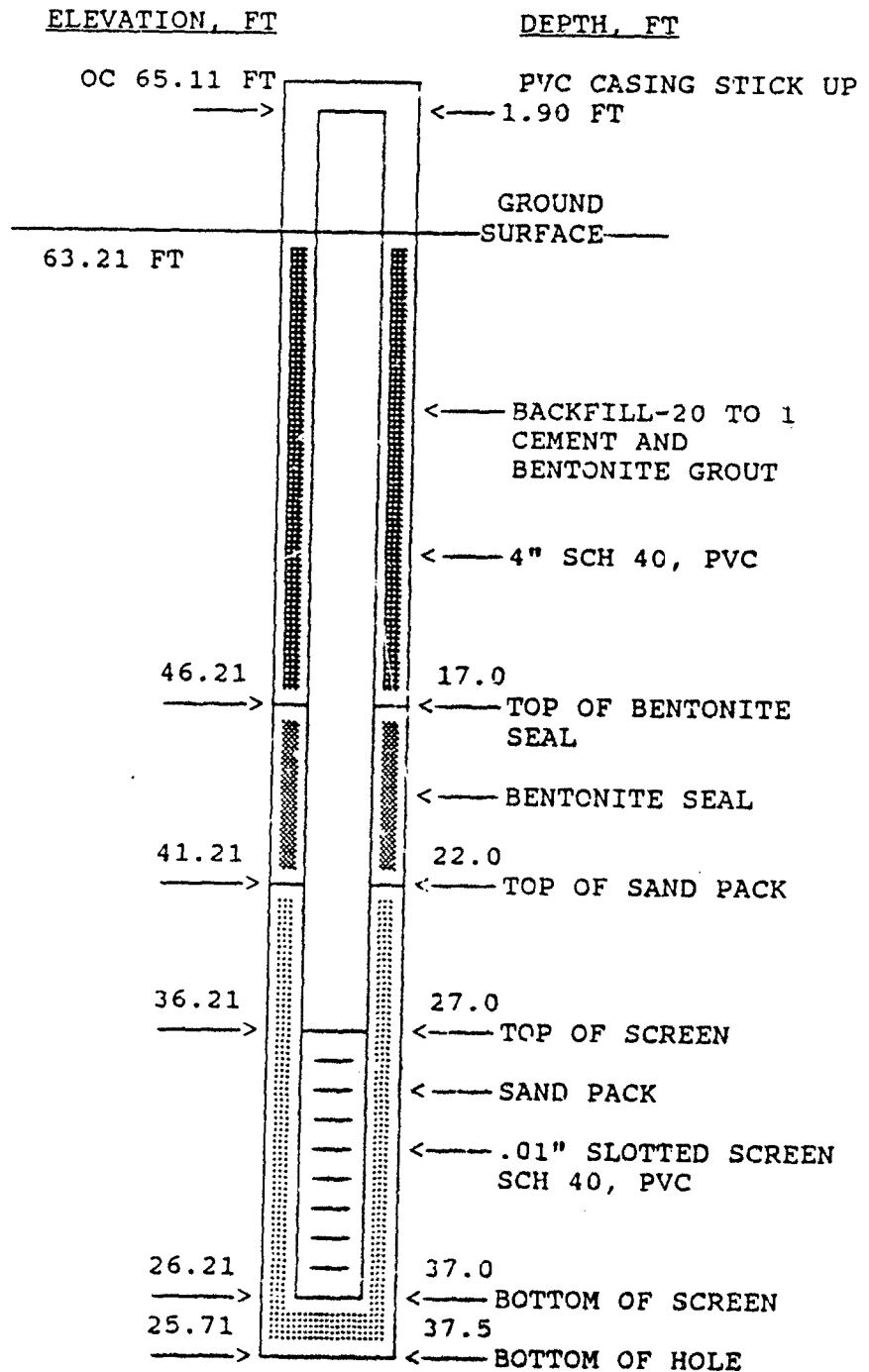
SITE: AFTA  
 WELL NUMBER: FTA-M8  
 COORDINATES: X -15018 ; Y 63395  
 DATE COMPLETE: 12/3/89



SITE: AFTA  
 WELL NUMBER: FTA-M9  
 COORDINATES: X -15196 ; Y 63459  
 DATE COMPLETE: 11/30/89

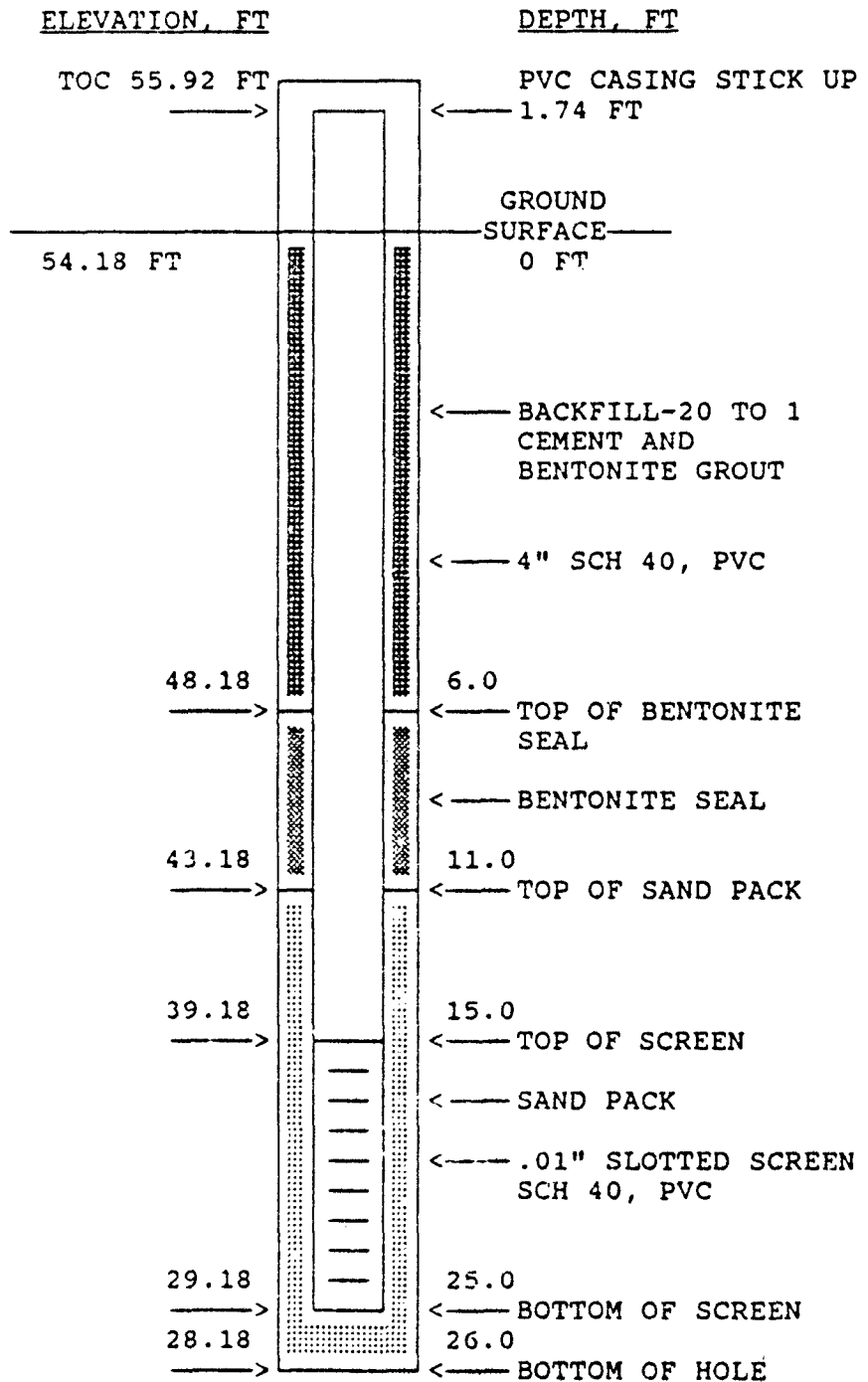


SITE: AFTA  
 WELL NUMBER: FTA-M10  
 COORDINATES: X -14446 ; Y 62838  
 DATE COMPLETE: 10/14/89

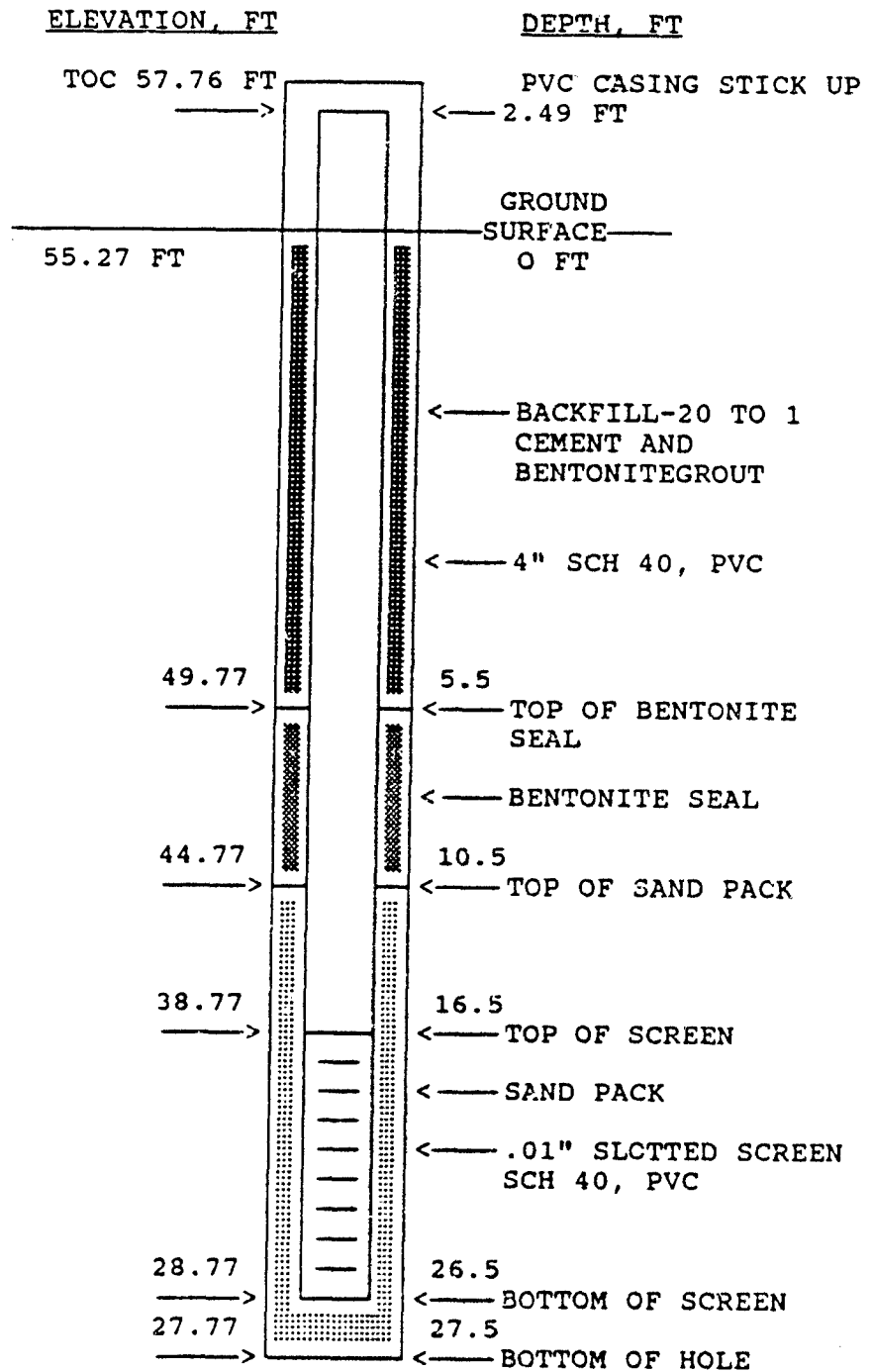




SITE: AFTA  
 WELL NUMBER: FTA-M11  
 COORDINATES: X -14251 ; Y 63893  
 DATE COMPLETE: 11/22/89



SITE: AFTA  
 WELL NUMBER: FTA-M12  
 COORDINATES: X -14513 ; Y 64373  
 DATE COMPLETE: 11/24/89



APPENDIX F

SURVEY DATA

GROUND-WATER MONITOR WELLS FTA-M1 THRU FTA-M12  
AND SOIL BORINGS FTA-B1 THRU FTA-B3

<u>WELL #</u>	<u>APG COORDINATES</u>		<u>ELEVATION, FT</u>	
	<u>x</u>	<u>y</u>	<u>GROUND SURFACE</u>	<u>TOP OF PVC</u>
FTA-M1	-14776.98	63612.79	58.63	60.42
FTA-M2	-14443.27	63994.53	54.89	56.49
FTA-M3	-14213.29	63529.95	57.33	59.26
FTA-M4	-14230.20	63516.79	57.18	59.57
FTA-M5	-14444.87	63218.74	61.26	63.13
FTA-M6	-14632.43	63274.29	61.05	63.05
FTA-M7	-14808.11	63342.49	59.52	61.50
FTA-M8	-15018.05	63395.06	59.39	61.97
FTA-M9	-15196.18	63458.79	59.48	61.35
FTA-M10	-14446.43	62838.49	63.21	65.11
FTA-M11	-14250.87	63892.67	54.18	55.92
FTA-M12	-14513.24	64373.20	55.27	57.76
WELL 1040	-14227.43	62188.76	55.33	-----
WELL 1041	-14277.31	62411.19	58.61	-----

<u>BORING #</u>	<u>APG COORDINATES</u>		<u>GROUND SURFACE</u>
	<u>x</u>	<u>y</u>	<u>ELEVATION, FT</u>
FTA-SB1	-14808.70	63591.24	58.99
FTA-SB2	-14442.10	63958.42	55.54
FTA-SB3	-14214.32	63492.48	57.08

APPENDIX G

WATER LEVEL DATA FOR AFTA WELLS  
DECEMBER 1989 THRU OCTOBER 1990

WATER LEVEL ELEVATION IN FEET (msl)

<u>WELL #</u>	<u>1989</u>	<u>1990</u>					
	<u>12 DEC</u>	<u>12 JAN</u>	<u>28 FEB</u>	<u>26 MAR</u>	<u>30 MAY</u>	<u>28 JUN</u>	<u>31 OCT</u>
FTA-M1	32.27	32.02	31.98	31.94	32.54	33.08	32.11
FTA-M2	32.99	32.82	32.96	32.82	33.49	33.93	32.91
FTA-M4	32.97	32.67	32.62	32.59	33.10	33.63	32.79
FTA-M5	32.53	32.18	32.03	32.05	32.50	33.05	32.21
FTA-M6	32.35	31.98	31.83	31.81	32.32	32.87	32.05
FTA-M7	32.00	31.78	31.62	31.55	32.21	32.77	31.92
FTA-M8	31.87	31.49	31.40	31.34	31.87	32.52	31.55
FTA-M9	31.55	31.20	31.17	31.10	31.75	32.33	31.29
FTA-M10	32.26	31.96	31.72	31.78	32.25	32.79	32.03
FTA-M11	33.17	32.97	33.07	32.92	33.66	34.07	33.09
FTA-M12	33.46	33.16	33.42	33.24	33.91	34.28	33.18

NOTE : Well FTA-M3 is dry.

APPENDIX H

WATER LEVEL DATA FOR WELLS AA-1 THRU AA-2  
AUGUST 1986 THRU MARCH 1990

WATER LEVEL ELEVATION IN FEET (msl)

<u>DATE</u>	<u>AA-1</u>	<u>AA-2</u>	<u>AA-3</u>	<u>AA-4</u>	<u>AA-5</u>
9/10/86	29.90	31.35	33.63	38.02	27.51
12/15/86	29.00			38.29	26.65
2/12/87	29.67	31.35	33.34	40.60	27.07
3/20/87	30.13	32.14	33.73	41.31	27.30
4/27/87	30.40	32.49	34.30	40.98	27.68
5/29/87	30.42	32.41	34.44	40.64	27.75
6/30/87	30.20	32.07		40.32	
7/24/87	29.86	31.74	34.05	39.58	27.61
8/20/87	29.73	31.55	33.88	38.80	27.36
9/25/87	29.45	31.05	33.23	38.87	27.18
10/26/87	29.26	30.82	33.11	38.38	27.22
11/24/87	29.01	30.53	32.83	38.02	26.95
12/28/87	28.75	30.20	32.44		26.82
1/29/88	28.51	30.19	32.38	38.32	26.71
2/29/88	28.82	30.59	32.63	39.46	26.74
3/28/88	29.27	31.35	33.05	40.22	27.01
4/13/88	29.21	31.53	33.22	40.41	
5/27/88	29.91	32.35	33.58	42.48	27.36
6/20/88	30.31	32.89	34.67	41.89	27.61
7/12/88	30.31	32.72	34.88	41.29	27.73
8/ 2/88	30.38	32.63	35.17	40.70	27.86
9/ 7/88	30.06	32.34	34.85	40.92	28.01
12/28/88	29.50	31.55	34.15	40.80	27.48
1/27/89	29.41	31.55	33.88	41.22	27.26
4/28/89	31.01	33.55	35.27	43.90	27.86
7/31/89	33.27	35.53	37.38	45.62	29.21
10/23/89	33.13	35.22	37.03	44.12	29.93
1/11/90	33.42	35.06	37.36	43.30	30.49
3/28/90	32.88	35.15	37.01	44.12	29.55



APPENDIX I

SURFACE WATER CHEMICAL DATA  
NOVEMBER 1989

PARAMETERS	UNIT	FTASB2		FTASB3		FTASB3SP		FTASB3OF	
1,2,4-TRICHLOROBENZENE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
1,2-DICHLOROBENZENE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
1,2-DIPHENYLHYDRAZINE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
1,3-DICHLOROBENZENE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
1,4-DICHLOROBENZENE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
2,4,5-TRICHLOROPHENOL	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
2,4,6-TRICHLOROPHENOL	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
2,4-DICHLOROPHENOL	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
2,4-DIMETHYLPHENOL	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
2,4-DINITROPHENOL	mg/L	BDL	250.000000	BDL	250.000000	BDL	1.200000	BDL	1.200000
2-CHLORONAPHTHALENE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
2-CHLOROPHENOL	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
2-METHYL-4,6-DINITROPHENOL	mg/L	BDL	250.000000	BDL	250.000000	BDL	1.200000	BDL	1.200000
2-METHYLNAPHTHALENE	mg/L		140.000000		100.000000	BDL	.250000	BDL	.250000
2-METHYLPHENOL	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
2-NITROANILINE	mg/L	BDL	250.000000	BDL	250.000000	BDL	1.200000	BDL	1.200000
2-NITROPHENOL	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
3,3-DICHLOROBENZIDINE	mg/L	BDL	100.000000	BDL	100.000000	BDL	.500000	BDL	.500000
3-NITROANILINE	mg/L	BDL	250.000000	BDL	250.000000	BDL	1.200000	BDL	1.200000
4-BROMOPHENYL ETHER	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
4-CHLORO-3-METHYLPHENOL	mg/L	BDL	100.000000	BDL	100.000000	BDL	.500000	BDL	.500000
4-CHLOROANILINE	mg/L	BDL	100.000000	BDL	100.000000	BDL	.500000	BDL	.500000
4-CHLOROPHENYL PHENYL ETHER	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
4-METHYLPHENOL	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
4-NITROANILINE	mg/L	BDL	250.000000	BDL	250.000000	BDL	1.200000	BDL	1.200000
4-NITROPHENOL	mg/L	BDL	250.000000	BDL	250.000000	BDL	1.200000	BDL	1.200000
ACENAPHTHENE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
ACENAPHTHYLENE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
ANILINE	mg/L	BDL	100.000000	BDL	100.000000	BDL	.500000	BDL	.500000
ANTHRACENE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
BENZIDINE	mg/L	BDL	250.000000	BDL	250.000000	BDL	1.200000	BDL	1.200000
BENZO(a)ANTHRACENE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
BENZO(a)PYRENE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
BENZO(b)FLUORANTHENE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
BENZO(g,h,i)PERYLENE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
BENZO(k)FLUORANTHENE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
BENZOIC ACID	mg/L	BDL	250.000000	BDL	250.000000	BDL	1.200000	BDL	1.200000
BENZYL ALCOHOL	mg/L	BDL	100.000000	BDL	100.000000		.920000		1.800000
BIS(2-CHLOROETHOXY)METHANE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
BIS(2-CHLOROETHYL)ETHER	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
BIS(2-CHLOROISOPROPYL)ETHER	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
BIS(2-ETHYLHEXYL)PHTHALATE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
BUTYLBENZYLPHTHALATE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
CHRYSENE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000

BDL Below Detection Limit

- #1 Samples contained an oil layer, values reported are for water layer only
- #3 Petroleum hydrocarbon concentrations estimated at 300 ppm
- #4 Petroleum hydrocarbon concentrations estimated at 200 ppm
- #3 Petroleum hydrocarbon concentrations estimated at 0.95 ppm
- #2 Petroleum hydrocarbon concentrations estimated at 1.2 ppm
- #7 Diluted Cut

PARAMETERS	UNIT	FTASB2		FTASB3		FTASB3SP		FTASB3OF	
DI-N-OCTYLPHTHALATE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
DIBENZO(a,h)ANTHRACENE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
DIBENZOFURAN	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
DIBUTYLPHTHALATE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
DIETHYL PHTHALATE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
DIMETHYL PHTHALATE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
FLUORANTHENE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
FLUORENE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
HEXACHLOROBENZENE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
HEXACHLOROBUTADIENE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
HEXACHLOROCYCLOPENTADIENE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
HEXACHLOROETHANE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
INDENO(1,2,3-c,d)PYRENE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
ISOPHORONE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
N-NITROSO-DI-METHYLAMINE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
N-NITROSO-DI-N-PROPYLAMINE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
N-NITROSO-DI-PHENYLAMINE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
NAPHTHALENE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
NITROBENZENE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
PENTACHLOROPHENOL	mg/L	BDL	250.000000	BDL	250.000000	BDL	1.200000	BDL	1.200000
PHENANTHRENE	mg/L		63.000000		24.000000		.170000		.130000
PHENOL	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
PYRENE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
AMMONIA NITROGEN	mg/L	#1	.140000	#1	.278000		.161000		.226000
CHEMICAL OXYGEN DEMAND	mg/L	#1	9845.000000	#1	5550.000000		2130.000000		1830.000000
CHLORIDE	mg/L		26.500000		19.800000		24.800000		20.200000
NITRATE NITROGEN	mg/L	#1	2.380000	#1	.992000		.372000		.172000
ORTHOPHOSPHATE	mg/L	#1	1.120000	#1	2.210000		.469000		.439000
SULFATE	mg/L		24.400000		19.000000		13.500000		10.400000
TOTAL ORGANIC CARBON	mg/L		--		--	BDL	1.000000		768.000000
2,4-DINITROTOLUENE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
2,6-DINITROTOLUENE	mg/L	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
ANTIMONY	mg/L	BDL	.005000	BDL	.005000	BDL	.005000	BDL	.005000
ARSENIC	mg/L		.007000		.010000		.007000		.005000
BERYLLIUM	mg/L	BDL	.005000	BDL	.005000	BDL	.005000	BDL	.005000
CADMIUM	mg/L		.037900		.030500		.008600		.006200
CHROMIUM	mg/L		.093000		.054000		.038000		.023000
COPPER	mg/L		.267000		.455000		.036000		.030000
LEAD	mg/L		5.770000		2.530000		.248000		.193000
MERCURY	mg/L	BDL	.000400	BDL	.000400	BDL	.000400	BDL	.000400
NICKEL	mg/L		.061000		.055000		.013000		.011000
SELENIUM	mg/L	BDL	.005000	BDL	.005000	BDL	.005000	BDL	.005000
SILICON	mg/L		25.800000		45.000000		11.600000		7.110000
SILVER	mg/L		.001000		.004000		.003000		.004000

BDL Below Detection Limit

#1 Samples contained an oil layer, values reported are for water layer only

#3 Petroleum hydrocarbon concentrations estimated at 300 ppm

#4 Petroleum hydrocarbon concentrations estimated at 200 ppm

#3 Petroleum hydrocarbon concentrations estimated at 0.95 ppm

#3 Petroleum hydrocarbon concentrations estimated at 1.2 ppm

#7 Diluted Out

PARAMETERS	UNIT	FTASB2	FTASB3	FTASB3SP	FTASB3OF
THALLIUM	mg/L	BDL .001000	BDL .001000	BDL .001000	BDL .001000
ZINC	mg/L	2.670000	2.620000	.425000	.382000
OIL & GREASE	mg/L	34763.000000	11596.000000	83.000000	83.000000
PCB 1016	mg/L	BDL .004000	BDL .002000	BDL .000200	BDL .000200
PCB 1221	mg/L	BDL .004000	BDL .002000	BDL .000200	BDL .000200
PCB 1232	mg/L	BDL .004000	BDL .002000	BDL .000200	BDL .000200
PCB 1242	mg/L	BDL .004000	BDL .002000	BDL .000200	BDL .000200
PCB 1248	mg/L	BDL .004000	BDL .002000	BDL .000200	BDL .000200
PCB 1254	mg/L	BDL .004000	BDL .002000	BDL .000200	BDL .000200
PCB 1260	mg/L	BDL .004000	BDL .002000	BDL .000200	BDL .000200
ALDRIN	mg/L	BDL .000200	BDL .000100	BDL .000010	BDL .000010
CHLORDANE	mg/L	BDL .004000	BDL .002000	BDL .000200	BDL .000200
DIELDRIN	mg/L	BDL .000200	BDL .000100	BDL .000010	BDL .000010
ENDOSULFAN I	mg/L	BDL .000200	BDL .000100	BDL .000010	BDL .000010
ENDOSULFAN II	mg/L	BDL .000200	.003300	BDL .000010	BDL .000010
ENDOSULFAN SULFATE	mg/L	BDL .000200	BDL .000100	BDL .000010	BDL .000010
ENDRIN	mg/L	BDL .000200	BDL .000100	BDL .000010	BDL .000010
ENDRIN ALDEHYDE	mg/L	BDL .000200	BDL .000100	BDL .000010	BDL .000010
HEPTACHLOR	mg/L	BDL .000200	BDL .000100	BDL .000010	BDL .000010
HEPTACHLOR EPOXIDE	mg/L	BDL .000200	BDL .000100	BDL .000010	.000140
METHOXYCHLOR	mg/L	BDL .000200	BDL .000100	BDL .000010	BDL .000010
PFDD	mg/L	BDL .000200	BDL .000100	BDL .000010	BDL .000010
PFDD	mg/L	BDL .000200	BDL .000100	BDL .000010	BDL .000010
PFDDT	mg/L	BDL .000200	.011000	.048000	.024000
TOXAPHENE	mg/L	BDL .004000	BDL .002000	BDL .000200	BDL .000200
a-BHC	mg/L	BDL .000200	BDL .000100	BDL .000010	BDL .000010
b-BHC	mg/L	BDL .000200	BDL .000100	BDL .000010	BDL .000010
d-BHC	mg/L	BDL .000200	BDL .000100	BDL .000010	BDL .000010
g-BHC	mg/L	BDL .000200	BDL .000100	BDL .000010	BDL .000010
1,1,1-TRICHLOROETHANE	mg/L	BDL .050000	BDL .050000	BDL .050000	BDL .050000
1,1,2,2-TETRACHLOROETHANE	mg/L	BDL .050000	BDL .050000	BDL .050000	BDL .050000
1,1,2-TRICHLOROETHANE	mg/L	BDL .050000	BDL .050000	BDL .050000	BDL .050000
1,1-DICHLOROETHANE	mg/L	BDL .050000	BDL .050000	BDL .050000	BDL .050000
1,1-DICHLOROETHENE	mg/L	BDL .050000	BDL .050000	BDL .050000	BDL .050000
1,2-DICHLOROETHANE	mg/L	BDL .050000	BDL .050000	BDL .050000	BDL .050000
1,2-DICHLOROPROPANE	mg/L	BDL .050000	BDL .050000	BDL .050000	BDL .050000
2-BUTANONE	mg/L	BDL 1.000000	BDL 1.000000	BDL 1.000000	BDL 1.000000
2-CHLOROETHYL VINYLETHER	mg/L	BDL .100000	BDL .100000	BDL .100000	BDL .100000
2-HEXANONE	mg/L	1.300000	.860000	.890000	1.600000
4-METHYL-2-PENTANONE	mg/L	BDL .500000	BDL .500000	BDL .500000	BDL .500000
ACETONE	mg/L	110.000000	95.000000	67.000000	62.000000
ACROLEIN	mg/L	BDL 1.000000	BDL 1.000000	BDL 1.000000	BDL 1.000000
ACRYLONITRILE	mg/L	BDL 1.000000	BDL 1.000000	BDL 1.000000	BDL 1.000000

BDL Below Detection Limit  
#1 Samples contained an oil layer, values reported are for water layer only  
#3 Petroleum hydrocarbon concentrations estimated at 300 ppm  
#4 Petroleum hydrocarbon concentrations estimated at 200 ppm  
#3 Petroleum hydrocarbon concentrations estimated at 0.95 ppm  
#3 Petroleum hydrocarbon concentrations estimated at 1.2 ppm  
#7 Diluted Out

PARAMETERS	UNIT	FTASB2	FTASB3	FTASB3SP	FTASB3OF
BENZENE	mg/L	.110000	.130000	.200000	.210000
BROMODICHLOROMETHANE	mg/L BDL	.050000	BDL .050000	BDL .050000	BDL .050000
BROMOFORM	mg/L BDL	.050000	BDL .050000	BDL .050000	BDL .050000
BROMOMETHANE	mg/L BDL	.100000	BDL .100000	BDL .100000	BDL .100000
CARBON TETRACHLORIDE	mg/L BDL	.050000	BDL .050000	BDL .050000	BDL .050000
CARBONDISULFIDE	mg/L BDL	.050000	BDL .050000	BDL .050000	BDL .050000
CHLOROBENZENE	mg/L BDL	.050000	BDL .050000	BDL .050000	BDL .050000
CHLOROETHANE	mg/L BDL	.100000	BDL .100000	BDL .100000	BDL .100000
CHLOROFORM	mg/L BDL	.050000	BDL .050000	BDL .050000	BDL .050000
CHLOROMETHANE	mg/L BDL	.100000	BDL .100000	BDL .100000	BDL .100000
CIS-1,2-DICHLOROETHENE	mg/L BDL	.050000	BDL .050000	BDL .050000	BDL .050000
CIS-1,3-DICHLOROPROPENE	mg/L BDL	.050000	BDL .050000	BDL .050000	BDL .050000
DIBROMOCHLOROMETHANE	mg/L BDL	.050000	BDL .050000	BDL .050000	BDL .050000
ETHYLBENZENE	mg/L BDL	.050000	BDL .050000	.064000	.081000
METHYLENE CHLORIDE	mg/L	.480000	.076000	.100000	.160000
STYRENE	mg/L BDL	.050000	BDL .050000	BDL .050000	BDL .050000
T-XYLENE	mg/L	.070000	.123000	.470000	.470000
TETRACHLOROETHENE	mg/L BDL	.050000	BDL .050000	BDL .050000	BDL .050000
TOLUENE	mg/L	.093000	.073000	.360000	.370000
TRANS-1,2-DICHLOROETHENE	mg/L BDL	.050000	BDL .050000	BDL .050000	BDL .050000
TRANS-1,3-DICHLOROPROPENE	mg/L BDL	.050000	BDL .050000	BDL .050000	BDL .050000
TRICHLOROETHENE	mg/L BDL	.050000	BDL .050000	BDL .050000	BDL .050000
VINYL ACETATE	mg/L BDL	.500000	BDL .500000	BDL .500000	BDL .500000
VINYL CHLORIDE	mg/L BDL	.100000	BDL .100000	BDL .100000	BDL .100000
2,4,6-TRIBROMOPHENCL-S	Z #7	.000000	#7 .000000	#7 .000000	#7 .000000
2-FLUOROBIPHENYL-S	Z #3	.000000	#4 .000000	#5 .000000	#6 .000000
2-FLUOROPHENOL-S	Z #7	.000000	#7 .000000	#7 .000000	#7 .000000
NITROBENZENE-D5-S	Z #3	.000000	#4 .000000	#5 .000000	#6 .000000
P-TERPHENYL-D14-S	Z #3	.000000	#4 .000000	#5 .000000	#6 .000000
PHENOL-D5-S	Z #7	.000000	#7 .000000	#7 .000000	#7 .000000
1,2-DICHLOROETHANE-D4-S	Z	92.500000	108.000000	115.000000	107.000000
4-BROMOFLUOROBENZENE-S	Z	85.100000	104.000000	108.000000	110.000000
TOLUENE-D8-S	Z	75.400000	84.000000	114.000000	79.000000

BDL Below Detection Limit

#1 Samples contained an oil layer, values reported are for water layer only

#3 Petroleum hydrocarbon concentrations estimated at 300 ppm

#4 Petroleum hydrocarbon concentrations estimated at 200 ppm

#3 Petroleum hydrocarbon concentrations estimated at 0.95 ppm

#3 Petroleum hydrocarbon concentrations estimated at 1.2 ppm

#7 Diluted Out

PARAMETERS	UNIT	METHOD BLANK
1,2,4-TRICHLOROBENZENE	mg/L	--
1,2-DICHLOROBENZENE	mg/L	--
1,2-DIPHENYLHYDRAZINE	mg/L	--
1,3-DICHLOROBENZENE	mg/L	--
1,4-DICHLOROBENZENE	mg/L	--
2,4,5-TRICHLOROPHENOL	mg/L	--
2,4,6-TRICHLOROPHENOL	mg/L	--
2,4-DICHLOROPHENOL	mg/L	--
2,4-DIMETHYLPHENOL	mg/L	--
2,4-DINITROPHENOL	mg/L	--
2-CHLORONAPHTHALENE	mg/L	--
2-CHLOROPHENOL	mg/L	--
2-METHYL-4,6-DINITROPHENOL	mg/L	--
2-METHYLNAPHTHALENE	mg/L	--
2-METHYLPHENOL	mg/L	--
2-NITROANILINE	mg/L	--
2-NITROPHENOL	mg/L	--
3,3-DICHLOROBENZIDINE	mg/L	--
3-NITROANILINE	mg/L	--
4-BROMOPHENYL ETHER	mg/L	--
4-CHLORO-3-METHYLPHENOL	mg/L	--
4-CHLOROANILINE	mg/L	--
4-CHLOROPHENYL PHENYL ETHER	mg/L	--
4-METHYLPHENOL	mg/L	--
4-NITROANILINE	mg/L	--
4-NITROPHENOL	mg/L	--
ACENAPHTHENE	mg/L	--
ACENAPHTHYLENE	mg/L	--
ANILINE	mg/L	--
ANTHRACENE	mg/L	--
BENZIDINE	mg/L	--
BENZO(a)ANTHRACENE	mg/L	--
BENZO(a)PYRENE	mg/L	--
BENZO(b)FLUORANTHENE	mg/L	--
BENZO(g,h,i)PERYLENE	mg/L	--
BENZO(k)FLUORANTHENE	mg/L	--
BENZOIC ACID	mg/L	--
BENZYL ALCOHOL	mg/L	--
BIS(2-CHLOROETHOXY)METHANE	mg/L	--
BIS(2-CHLOROETHYL)ETHER	mg/L	--
BIS(2-CHLOROISOPROPYL)ETHER	mg/L	--
BIS(2-ETHYLHEXYL)PHTHALATE	mg/L	--
BUTYLBENZYLPHTHALATE	mg/L	--
CHRYSENE	mg/L	--

EDL	Below Detection Limit
#1	Samples contained an oil layer, values reported are for water layer only
#3	Petroleum hydrocarbon concentrations estimated at 300 ppm
#4	Petroleum hydrocarbon concentrations estimated at 200 ppm
#3	Petroleum hydrocarbon concentrations estimated at 0.95 ppm
#3	Petroleum hydrocarbon concentrations estimated at 1.2 ppm
/	Dilute Out

PARAMETERS	UNIT	METHOD BLANK
DI-N-OCTYLPHTHALATE	mg/L	--
DIBENZO(a,h)ANTHRACENE	mg/L	--
DIBENZOFURAN	mg/L	--
DIBUTYLPHTHALATE	mg/L	--
DIETHYL PHTHALATE	mg/L	--
DIMETHYL PHTHALATE	mg/L	--
FLUORANTHENE	mg/L	--
FLUORENE	mg/L	--
HEXACHLOROBENZENE	mg/L	--
HEXACHLOROBUTADIENE	mg/L	--
HEXACHLOROCYCLOPENTADIENE	mg/L	--
HEXACHLOROETHANE	mg/L	--
INDENO(1,2,3-c,d)PYRENE	mg/L	--
ISOPHORONE	mg/L	--
N-NITROSO-DI-METHYLAMINE	mg/L	--
N-NITROSO-DI-N-PROPYLAMINE	mg/L	--
N-NITROSO-DI-PHENYLAMINE	mg/L	--
NAPHTHALENE	mg/L	--
NITROBENZENE	mg/L	--
PENTACHLOROPHENOL	mg/L	--
PHENANTHRENE	mg/L	--
PHENOL	mg/L	--
PYRENE	mg/L	--
AMMONIA NITROGEN	mg/L	--
CHEMICAL OXYGEN DEMAND	mg/L	--
CHLORIDE	mg/L	--
NITRATE NITROGEN	mg/L	--
ORTHOPHOSPHATE	mg/L	--
SULFATE	mg/L	--
TOTAL ORGANIC CARBON	mg/L	--
2,4-DINITROTOLUENE	mg/L	--
2,6-DINITROTOLUENE	mg/L	--
ANTIMONY	mg/L	--
ARSENIC	mg/L	--
BERYLLIUM	mg/L	--
CADMIUM	mg/L	--
CHROMIUM	mg/L	--
COPPER	mg/L	--
LEAD	mg/L	--
MERCURY	mg/L	--
NICKEL	mg/L	--
SELENIUM	mg/L	--
SILICON	mg/L	--
SILVER	mg/L	--

BDL Below Detection Limit

#1 Samples contained an oil layer, values reported are for water layer only  
 #3 Petroleum hydrocarbon concentrations estimated at 300 ppm  
 #4 Petroleum hydrocarbon concentrations estimated at 200 ppm  
 #3 Petroleum hydrocarbon concentrations estimated at 0.95 ppm  
 #3 Petroleum hydrocarbon concentrations estimated at 1.2 ppm  
 #7 Diluted Out

PARAMETERS	UNIT	METHOD	BLANK
THALLIUM	mg/L	--	
ZINC	mg/L	--	
OIL & GREASE	mg/L	--	
PCB 1016	mg/L	BDL	.000200
PCB 1221	mg/L	BDL	.000200
PCB 1232	mg/L	BDL	.000200
PCB 1242	mg/L	BDL	.000200
PCB 1248	mg/L	BDL	.000200
PCB 1254	mg/L	BDL	.000200
PCB 1260	mg/L	BDL	.000200
ALDRIN	mg/L	BDL	.000010
CHLORDANE	mg/L	BDL	.000200
DIELDRIN	mg/L	BDL	.000010
ENDOSULFAN I	mg/L		.000260
ENDOSULFAN II	mg/L	BDL	.000010
ENDOSULFAN SULFATE	mg/L	BDL	.000010
ENDRIN	mg/L	BDL	.000010
ENDRIN ALDEHYDE	mg/L	BDL	.000010
HEPTACHLOR	mg/L		.000040
HEPTACHLOR EPOXIDE	mg/L	BDL	.000010
METHOXYCHLOR	mg/L	BDL	.000010
PPDDD	mg/L	BDL	.000010
PPDDE	mg/L	BDL	.000010
PPDDT	mg/L	BDL	.000010
TOXAPHENE	mg/L	BDL	.000200
a-BHC	mg/L	BDL	.000010
b-BHC	mg/L	BDL	.000010
d-BHC	mg/L	BDL	.000010
g-BHC	mg/L	BDL	.000010

BDL Below Detection Limit

#1 Samples contained an oil layer, values reported are for water layer only

#3 Petroleum hydrocarbon concentrations estimated at 300 ppm

#4 Petroleum hydrocarbon concentrations estimated at 200 ppm

#3 Petroleum hydrocarbon concentrations estimated at 0.95 ppm

#3 Petroleum hydrocarbon concentrations estimated at 1.2 ppm

#7 Diluted Out



APPENDIX J

SOIL GAS REPORT  
AUGUST 1989

Final Report  
Soil Gas Survey  
Fire Training Area  
Aberdeen Proving Ground, Maryland

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A	Results of Analysis
B	Sample Chromatograms

FINAL REPORT  
SOIL GAS SURVEY  
FIRING TRAINING AREA  
ABERDEEN PROVING GROUND, MARYLAND

1. BACKGROUND: The Waterways Experiment Station Geotechnical Laboratory has requested the Baltimore District Corps of Engineers to conduct a soil gas survey and prepare a report of findings for the Fire Training Area at Aberdeen Proving Ground, Maryland. Field work was conducted during the period of March to July 1989 with substantial delays due to above average rainfall in the area. This report was prepared by James E. Stefano, Geologist, U.S. Army Corps of Engineers, Geotechnical Engineering Branch, Baltimore District.

2. OBJECTIVE: The purpose of this survey was to verify the distribution and levels of contamination in the vadose zone. Information gained from this survey can be used to plan further site assessment activities such as the placement of groundwater monitoring wells. This report summarizes the procedures and findings of the soil gas survey.

3. SITE DESCRIPTION: The Fire Training Area has been used for fire fighting practice for an unspecified number of years. Contaminated fuels such as gasoline and jet fuel were used to fuel fires in two burn pits on the site. The 800-foot by 800-foot study areas was roughly centered on the two burn pits. The topography of the site is nearly flat with local surface drainage generally towards the north. The direction of local groundwater flow is unknown, but regional groundwater flow is towards the southeast. Depth to groundwater at the site is estimated at 15 to 20 feet. Soils at the site consist primarily of interfingering silty sands, silt, and silty clay. See Plate 1 for location of Fire Training Area.

4. SAMPLING STRATEGY: A geometric grid of 9 rows and 9 columns (81 points) was used to cover the entire 800-foot by 800-foot study area. The geometric sampling grid was designated by cardinal numbers for the vertical (y-axis) and by an alphanumeric designation for the horizontal (x-axis), the geometric sampling grid is shown on Plate 2. Initially, vertical profiling was conducted at six sample points near the center of the area. Samples were drawn from depths of 3 feet, 5 feet, 7 feet, and 9 feet at each point. The highest levels of contamination were measured at a depth of 5 feet; therefore, 5 feet was selected as the sample depth for the survey. After completion of the 81-point grid, additional sample points were added in areas where contaminants had been identified. A total of 176 points were sampled at the 5-foot depth. See Plate 2 for locations of sample points.

5. SAMPLING EQUIPMENT AND METHODS:

a. Probe Insertion. A gas-powered percussion drill was used to drive 6-foot sections of 0.75-inch outside diameter tubing into the soil. The probe tubing was constructed of type 316 stainless steel with an 0.1875-inch wall thickness. A stainless steel carriage bolt was placed in the tip of the probe prior to driving. After the tubing was driven, it was pulled back approximately 4 inches to allow the carriage bolt to drop out of the tip, exposing the probe to a small void in the soil.

b. Purging and Sampling: Following insertion of the probe, the remainder of the sampling train was attached. A removable, stainless steel sampling manifold was attached to the surface end of the probe. The sampling manifold has a nipple for attaching a vacuum line on one side and septum port on the

opposite side. A vacuum pump was attached to the sampling manifold and the system was pumped for 3 to 5 minutes. A valve and vacuum gage within the sampling system was used to determine if subsurface vapors were adequately being obtained. The sample was then collected for analysis through the septum port in the sampling manifold using a gas-tight syringe.

c. Decontamination of Sampling Equipment: The six stainless steel probes were steam-cleaned after every use. The entire system, including the sampling manifold and all fittings, was also disassembled and steam-cleaned after every six samples. The teflon tubing used to attach the vacuum pump was replaced periodically or whenever any visible signs of contamination were observed. Gas-tight syringes were cleaned after every sample with a Hamilton high temperature/vacuum syringe cleaner.

## 6. ANALYSIS:

a. Instrumentation: Samples were analyzed on-site using a Photovac 10S70 Gas Chromatograph (GC). The Photovac is a portable, programmable, integrating GC with a photoionization detector. The CPSIL-5 analytical column that was used has a 3.4-inch precolumn and a 29-inch analytical column.

b. Operating Conditions: "Ultra-Zero" grade air, containing less than 0.1 parts per million (ppm) hydrocarbons was used as the carrier gas. Flows of carrier gas through the instrument were set at 15 cc per minute by using a precision gas flow meter. The isothermal oven was set at 40 degrees C. Recorder gain was set at either 10 or 20 as needed to optimize sample analysis.

c. Analytical Method: After warm-up, the instrument was calibrated by using a vapor standard blend containing seven compounds including benzene, toluene and o-xylene. The calibration standard contained the three target compounds at a concentration of 1 ppm  $\pm 2\%$ . Compound retention time and response data were stored in the integrator and subsequently used to make identifications and to quantify compounds in the samples. The instrument was calibrated periodically each day to ensure that the analytical system remained in calibration as the ambient temperature changed. A 50 ul sample was injected with a gas-tight syringe and the GC in manual sample mode.

d. Quality Assurance/Quality Control: Blanks and sample duplicates were run periodically to ensure that the analytical system was producing reliable results. Fifteen blanks consisting of air sampled upwind of the burn pits and other equipment on the site were analyzed. Duplicate analysis were run at 20 sample points. Good duplication of results was observed on approximately 75% of the samples. Insufficient purging may have been responsible for the poor duplication in the other 25% of the duplicate runs. No problems with carry-over or lingering contamination on the column were observed.

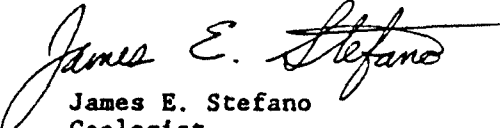
## 7. RESULTS OF ANALYSIS.

a. Vapor Concentrations: Benzene concentrations in the soil vapor ranged from <0.01 ppm to 6.85 ppm. Toluene concentrations in the soil vapor ranged from <0.01 ppm to 7.55 ppm. O-xylene concentrations in the soil vapor ranged from <0.3 ppm to 0.85 ppm. Many of the chromatograms that identified the target compounds had several early eluting peaks (unknowns) which is typical of a gasoline chromatogram (see Appendix C for sample chromatograms). All Chromatograms are on file in the Geotechnical Engineering Branch. A plot of the total number of ionizable compounds passing the detector is shown as Plate 4. The total concentrations of Benzene, Toluene, and O-xylene (BTX) was plotted and shown as Plate 3. Table 1 in Appendix A shows the results of analysis at each sample point. Significant concentrations of BTX in the soil

vapor were detected adjacent to the burn pits and between the burn pits and Bush River Road.

b. Data Gridding/Contouring: CPS/PC version 3.1 software was used for gridding and contouring the field data into Plates 3 and 4. The "Projections" algorithm without smoothing and linear interpolation method were utilized to produce the contours.

8. DATA ASSESSMENT. Higher levels of soil vapor contaminants south of the burn pits suggest that surface drainage (northward) has not been a key factor in the migration of contaminants from the burn pits. Factors of a physical site-related nature such as the presence of confining layers between the contaminant source and the soil vapor sampling point may have affected the data. Changes in the amount of soil moisture and ambient temperature over the duration of the field work may have affected the results. Contaminants appear to be moving in a southeastly direction (with the groundwater) with vapors diffusing into the overlying soils. In the case of contaminants moving with the groundwater, the concentration gradient of soil vapors would be expected to increase with depth. Increasing concentrations with greater depth were not observed during vertical profiling, indicating that the site geology has the most significant influence on the movement of contaminants at this site.

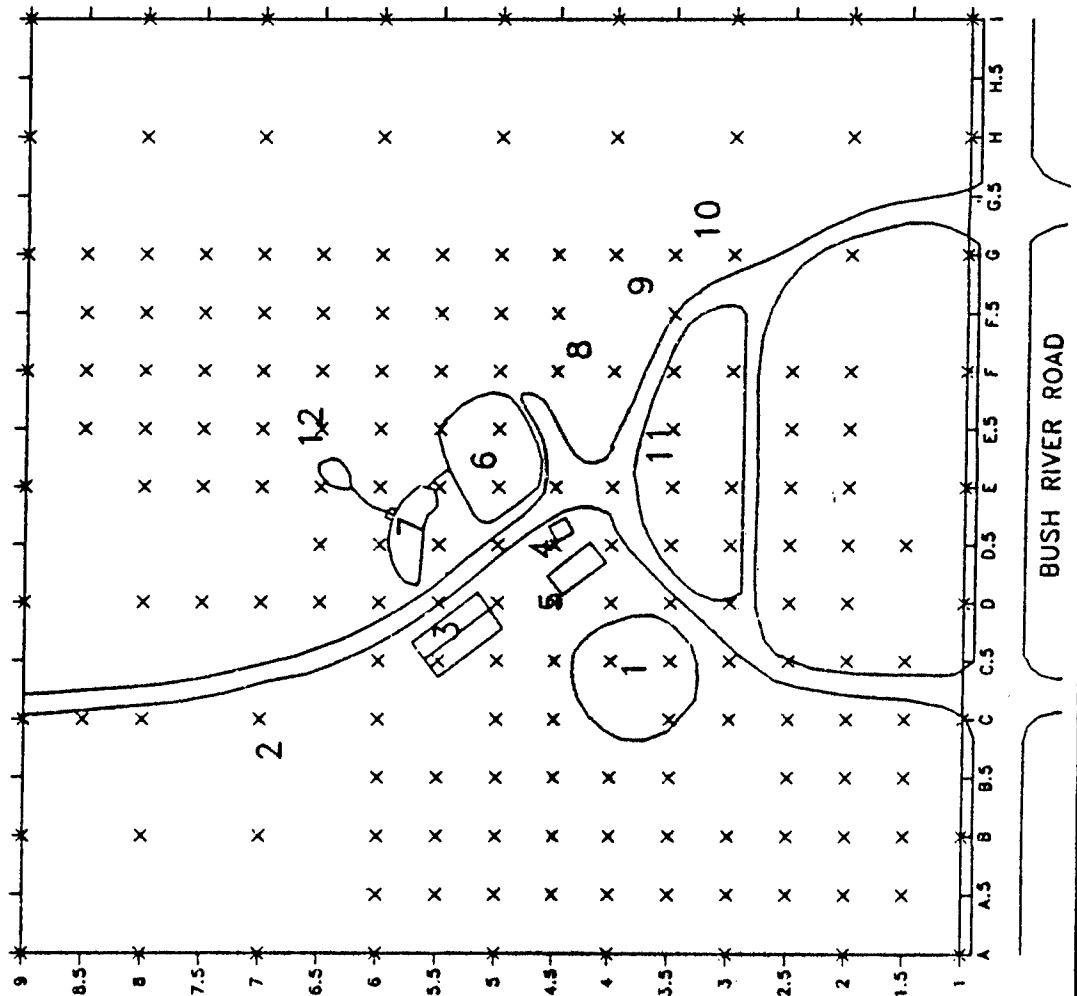
  
James E. Stefano  
Geologist

**FIGURES**



# LEGEND

- X TEST POINT
- 1 BROKEN FLANGE & RETENTION PIT
- 2 LARGE AIRCRAFT
- 3 SMOKE BUILDING
- 4 FUEL DISTRIBUTION PUMP
- 5 FUEL STORAGE - ABOVE & BELOW GROUND
- 6 TANK PIT
- 7 SEPARATION PIT
- 8 JET AIRCRAFT
- 9 SMALL AIRCRAFT
- 10 HELICOPTER
- 11 OPEN PIT
- 12 OUTWASH & RIPRAP



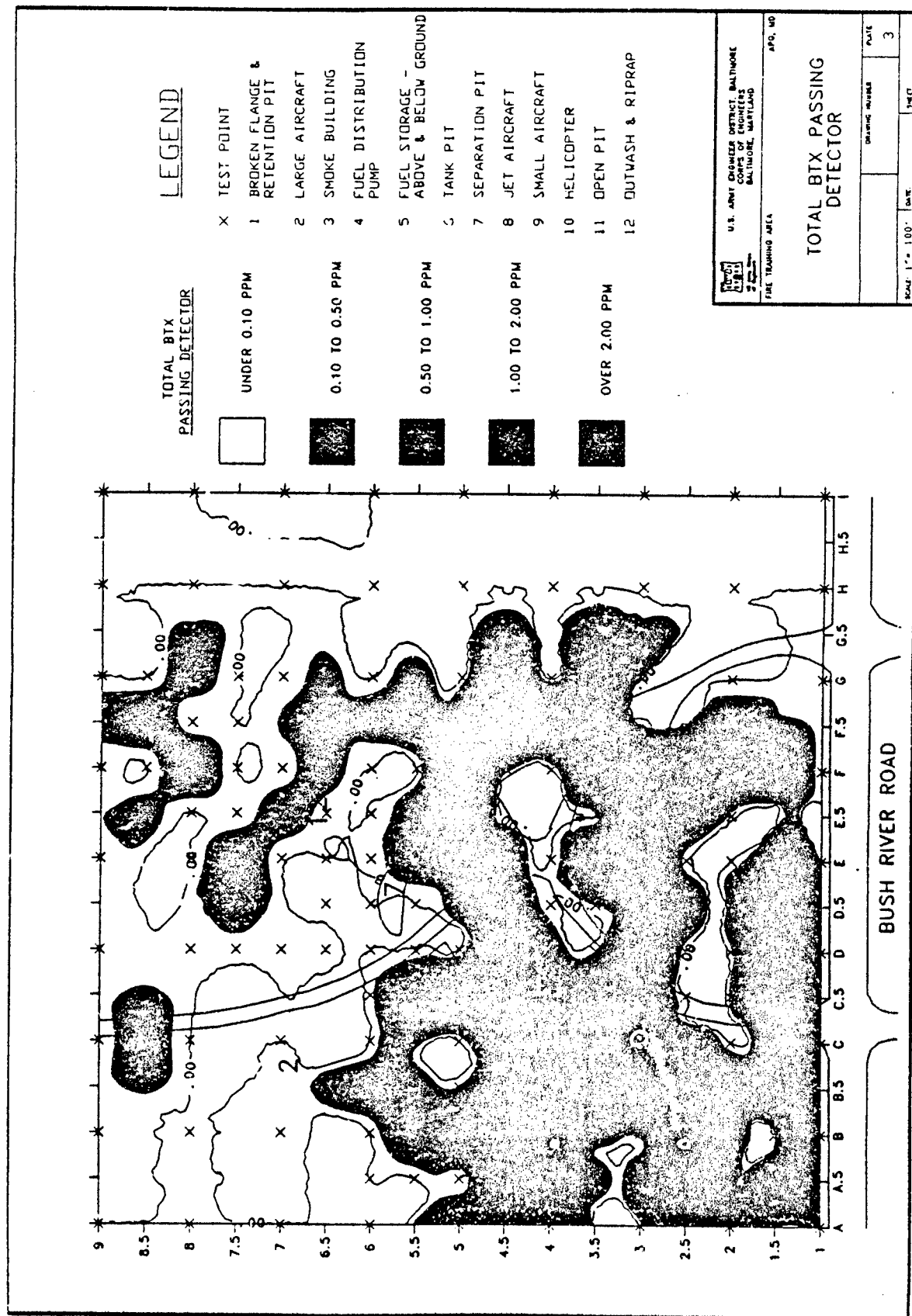
U.S. ARMY ENGINEER DISTRICT, BALTIMORE  
CORPS OF ENGINEERS  
BALTIMORE, MARYLAND

ENGINEERING AREA  
APR. 60

SITE MAP WITH TEST POINTS

DATE	SCALE	SHEET
2	1" = 100'	1

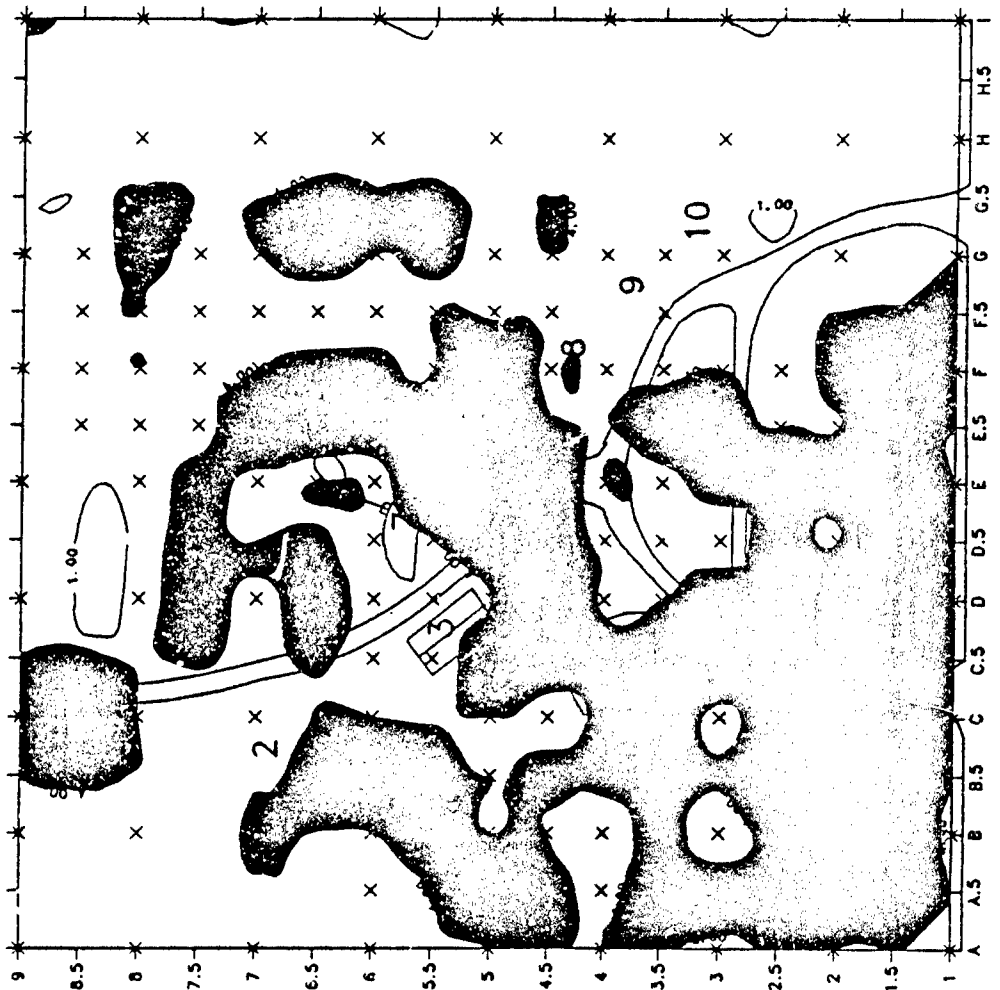
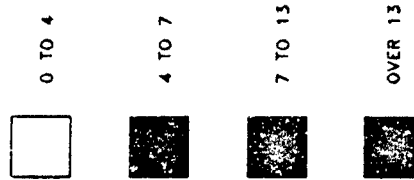




# LEGEND

- X TEST POINT
- 1 BROKEN FLANGE & RETENTION PIT
- 2 LARGE AIRCRAFT
- 3 SMOKE BUILDING
- 4 FUEL DISTRIBUTION PUMP
- 5 FUEL STORAGE - ABOVE & BELOW GROUND
- 6 TANK PIT
- 7 SEPARATION PIT
- 8 JET AIRCRAFT
- 9 SMALL AIRCRAFT
- 10 HELICOPTER
- 11 OPEN PIT
- 12 DUTVASH & R:PRAP

## TOTAL IONIZABLES PASSING DETECTOR



U.S. ARMY ENGINEER DISTRICT BALTIMORE COMPANY OF ENGINEERS BALTIMORE, MARYLAND		APR. 60	
FIRE TRAINING AREA		PLATE 4	
TOTAL IONIZABLES PASSING DETECTOR		SCALE 1" = 100' DATE	
DRAWING NUMBER		SHEET	

**APPENDIX A**  
**RESULTS OF ANALYSIS**

TABLE 1

GRID LOCATION	BENZENE	VOLATILES IN PPM		TOTAL BTX	TOTAL IONIZABLES PASSING DETECTOR
		TOLUENE	O-XYLENE		
A.0-1.0	0.0	1.01	0.0	1.01	2
A.0-2.0	0.0	1.06	0.0	1.06	4
A.0-3.0	0.0	0.0	0.0	0.0	3
A.0-4.0	0.0	1.02	0.0	1.02	4
A.0-5.0	0.0	0.95	0.0	0.95	4
A.0-6.0	0.0	0.0	0.0	0.0	3
A.0-7.0	0.0	0.0	0.0	0.0	3
A.0-8.0	0.0	0.0	0.0	0.0	3
A.0-9.0	0.0	0.0	0.0	0.0	3
A.5-1.5	0.69	0.84	0.0	1.53	6
A.5-2.0	0.0	0.26	0.0	0.26	5
A.5-2.5	2.66	0.0	0.0	2.66	7
A.5-3.0	0.16	0.31	0.0	0.47	5
A.5-3.5	0.25	0.0	0.0	0.25	7
A.5-4.0	0.0	0.22	0.0	0.22	3
A.5-4.5	0.08	0.29	0.0	0.37	6
A.5-5.0	0.05	0.0	0.0	0.05	6
A.5-5.5	0.0	0.0	0.0	0.0	4
A.5-6.0	0.0	0.0	0.0	0.0	3
B.0-1.0	0.35	7.55	0.0	7.90	3
B.0-1.5	0.02	0.0	0.0	0.02	7
B.0-2.0	0.0	0.97	0.0	0.97	7
B.0-2.5	0.07	0.19	0.0	0.26	5
B.0-3.0	0.0	0.15	0.0	0.15	2
B.0-3.5	0.13	0.33	0.0	0.46	5
B.0-4.0	0.0	1.02	0.0	1.02	2
B.0-4.5	0.01	0.19	0.0	0.20	4
B.0-5.0	0.0	1.03	0.0	1.03	4
B.0-5.5	0.27	0.18	0.0	0.45	5
B.0-6.0	0.0	0.01	0.0	0.01	4
B.0-7.0	0.0	0.02	0.0	0.02	4
B.0-8.0	0.0	0.0	0.0	0.0	3
B.0-9.0	0.0	0.02	0.0	0.02	3
B.5-1.5	2.45	0.58	0.0	3.03	6
B.5-2.0	0.25	0.10	0.0	0.35	5
B.5-2.5	6.85	0.49	0.0	7.34	10
B.5-3.5	3.37	0.0	0.0	3.37	7
B.5-4.0	0.14	0.62	0.0	0.76	5
B.5-4.5	0.07	0.80	0.0	0.87	5
B.5-5.0	0.11	0.0	0.0	0.11	4
B.5-5.5	0.11	0.15	0.0	0.26	5
B.5-6.0	0.33	0.0	0.0	0.33	7
C.0-1.0	0.0	0.88	0.0	0.88	6
C.0-1.5	0.52	0.0	0.0	0.52	6
C.0-2.0	0.0	0.0	0.0	0.0	4
C.0-2.5	0.66	0.63	0.0	1.29	7
C.0-3.0	0.0	0.0	0.0	0.0	3
C.0-3.5	0.86	0.73	0.0	1.57	9
C.0-4.5	0.0	0.47	0.0	0.47	3
C.0-5.0	0.0	0.0	0.0	0.0	4
C.0-6.0	0.0	0.0	0.0	0.0	4
C.0-7.0	0.0	0.0	0.0	0.0	3
C.0-8.0	0.0	0.0	0.0	0.0	4
C.0-8.5	0.03	0.15	0.0	0.18	7
C.0-9.0	0.0	0.03	0.0	0.03	5

TABLE 1 (continued)

GRID LOCATION	VOLATILES IN PPM			TOTAL BTX	TOTAL IONIZABLES PASSING DETECTOR
	BENZENE	TOUENE	O-XYLENE		
C.5-1.5	3.48	0.0	0.0	3.48	10
C.5-2.0	0.03	0.09	0.0	0.12	4
C.5-2.5	0.0	0.0	0.0	0.0	4
C.5-3.0	0.44	0.74	0.0	1.18	8
C.5-3.5	0.05	1.06	0.0	1.11	10
C.5-4.0	0.02	0.49	0.0	0.51	5
C.5-4.5	1.86	0.50	0.0	2.36	8
C.5-5.0	1.07	0.66	0.0	1.73	8
C.5-5.5	0.66	0.0	0.0	0.66	2
C.5-6.0	0.06	0.0	0.0	0.06	3
D.0-1.0	0.0	0.11	0.0	0.11	5
D.0-2.0	0.02	0.01	0.03	0.06	7
D.0-2.5	0.0	0.04	0.0	0.04	4
D.0-3.0	0.0	1.30	0.0	1.30	6
D.0-3.5	0.06	0.03	0.0	0.09	4
D.0-4.0	0.0	0.39	0.0	0.39	3
D.0-4.5	0.0	0.60	0.85	1.45	21
D.0-5.0	0.0	0.0	0.0	0.0	4
D.0-5.5	0.0	0.03	0.0	0.03	3
D.0-6.0	0.0	0.0	0.0	0.0	3
D.0-6.5	0.02	0.0	0.0	0.02	6
D.0-7.0	0.0	0.01	0.0	0.01	3
D.0-7.5	0.05	0.0	0.0	0.05	6
D.0-8.0	0.0	0.02	0.0	0.02	2
D.0-9.0	0.0	0.02	0.0	0.02	3
D.5-1.5	4.97	0.0	0.0	4.97	8
D.5-2.0	0.21	0.04	0.0	0.25	4
D.5-2.5	0.0	0.73	0.0	0.73	5
D.5-3.0	0.0	0.05	0.0	0.05	3
D.5-3.5	0.0	0.10	0.0	0.10	4
D.5-4.0	0.0	0.03	0.0	0.03	3
D.5-4.5	0.47	0.0	0.0	0.47	7
D.5-5.0	0.26	0.0	0.0	0.26	9
D.5-5.5	0.0	0.0	0.0	0.0	4
D.5-6.0	0.0	0.0	0.0	0.0	2
D.5-6.5	0.0	0.0	0.0	0.0	5
E.0-1.0	0.0	0.01	0.0	0.01	4
E.0-2.0	0.0	0.0	0.0	0.0	5
E.0-2.5	0.0	0.05	0.0	0.05	4
E.0-3.0	0.0	1.14	0.0	1.14	5
E.0-3.5	1.25	0.0	0.0	1.25	3
E.0-4.0	0.0	0.0	0.0	0.0	1
E.0-4.5	0.0	0.37	0.0	0.37	11
E.0-5.0	0.0	0.0	0.09	0.09	10
E.0-5.5	0.12	0.18	0.0	0.30	13
E.0-6.0	0.0	0.04	0.0	0.04	2
E.0-6.5	0.0	0.0	0.0	0.0	1
E.0-7.0	0.0	0.02	0.0	0.02	3
E.0-7.5	0.04	0.32	0.0	0.36	5
E.0-8.0	0.0	0.0	0.0	0.0	2
E.0-9.0	0.0	0.03	0.0	0.03	3

TABLE 1 (continued)

GRID LOCATION	VOLATILES IN PPM			TOTAL BTX	TOTAL IONIZABLES PASSING DETECTOR
	BENZENE	TOLUENE	O-XYLENE		
E.5-2.0	0.0	0.06	0.0	0.06	4
E.5-2.5	0.0	0.72	0.0	0.72	4
E.5-3.5	0.02	0.08	0.0	0.10	8
E.5-5.0	0.0	0.20	0.0	0.20	4
E.5-5.5	0.31	0.0	0.0	0.31	8
E.5-6.0	0.0	0.01	0.0	0.01	6
E.5-6.5	0.0	0.07	0.0	0.07	9
E.5-7.0	0.08	0.10	0.0	0.18	8
E.5-7.5	0.04	0.0	0.0	0.04	3
E.5-8.0	0.0	0.0	0.0	0.0	3
E.5-8.5	0.0	0.15	0.0	0.15	3
F.0-1.0	0.0	0.02	0.0	0.02	6
F.0-2.0	0.0	1.08	0.0	1.08	5
F.0-2.5	0.54	0.04	0.0	0.58	3
F.0-3.0	0.0	1.16	0.0	1.16	4
F.0-3.5	0.0	1.88	0.0	1.88	3
F.0-4.0	0.0	0.0	0.0	0.0	3
F.0-4.5	0.0	0.19	0.0	0.19	2
F.0-5.0	1.37	0.44	0.0	1.81	17
F.0-5.5	0.0	0.0	0.0	0.0	4
F.0-6.0	0.0	0.0	0.0	0.0	5
F.0-6.5	0.03	0.13	0.0	0.16	5
F.0-7.0	0.0	0.03	0.03	0.06	4
F.0-7.5	0.0	0.0	0.0	0.0	3
F.0-8.0	0.0	0.03	0.41	0.44	4
F.0-8.5	0.0	0.0	0.0	0.0	3
F.0-9.0	0.0	0.06	0.0	0.06	3
F.5-3.5	0.0	0.17	0.0	0.17	4
F.5-4.5	0.0	1.83	0.0	1.83	3
F.5-5.0	0.0	0.29	0.0	0.29	3
F.5-5.5	0.27	0.21	0.0	0.48	4
F.5-6.0	0.0	0.15	0.0	0.15	3
F.5-6.5	0.0	0.15	0.0	0.15	3
F.5-7.0	0.0	0.11	0.0	0.11	3
F.5-7.5	0.0	0.0	0.0	0.0	2
F.5-8.0	0.04	0.0	0.0	0.04	4
F.5-8.5	0.26	0.0	0.0	0.26	3
G.0-1.0	0.0	0.03	0.0	0.03	4
G.0-2.0	0.0	0.0	0.0	0.0	2
G.0-3.0	0.0	0.0	0.0	0.0	2
G.0-3.5	0.0	1.99	0.0	1.99	3
G.0-4.0	0.0	0.0	0.0	0.0	3
G.0-4.5	0.0	1.67	0.0	1.67	4
G.0-5.0	0.0	0.0	0.0	0.0	3
G.0-5.5	0.04	0.20	0.0	0.24	5
G.0-6.0	0.0	0.0	0.0	0.0	4
G.0-6.5	0.04	0.09	0.0	0.13	6
G.0-7.0	0.03	0.0	0.0	0.03	4
G.0-7.5	0.0	0.0	0.0	0.0	3
G.0-8.0	0.18	0.05	0.0	0.23	5
G.0-8.5	0.0	0.0	0.0	0.0	2
G.0-9.0	0.0	0.05	0.0	0.0	2

TABLE 1 (continued)

GRID LOCATION	VOLATILES IN PPM				TOTAL IONIZABLES PASSING DETECTOR
	BENZENE	TOLUENE	O-XYLENE	TOTAL BTX	
H.O-1.0	0.0	0.0	0.0	0.0	2
H.O-2.0	0.0	0.0	0.0	0.0	2
H.O-3.0	0.0	0.0	0.0	0.0	2
H.O-4.0	0.0	0.0	0.0	0.0	2
H.O-5.0	0.0	0.0	0.0	0.0	2
H.O-6.0	0.0	0.0	0.0	0.0	3
H.O-7.0	0.0	0.0	0.0	0.0	2
H.O-8.0	0.0	0.0	0.0	0.0	3
H.O-9.0	0.0	0.0	0.0	0.0	2
I.O-1.0	0.0	0.0	0.0	0.0	2
I.O-2.0	0.0	0.0	0.0	0.0	2
I.O-3.0	0.0	0.0	0.0	0.0	1
I.O-4.0	0.0	0.0	0.0	0.0	3
I.O-5.0	0.0	0.0	0.0	0.0	2
I.O-6.0	0.0	0.0	0.0	0.0	1
I.O-7.0	0.01	0.0	0.0	0.01	4
I.O-8.0	0.0	0.0	0.0	0.0	2
I.O-9.0	0.0	0.0	0.0	0.0	4

APPENDIX B  
SAMPLE CHROMATOGRAMS



# PHOTOVAC



STOP # 500.0  
 SAMPLE LIBRARY 1 APR 20 1989 101.9  
 ANALYSIS # 18 15 CC RIM  
 INTERNAL TEMP 24 OVEN 40 C  
 GAIN 20 CAL RUN

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	12.5	50.8 PPM
UNKNOWN	2	14.9	154.3 PPM
UNKNOWN	3	32.3	1.0 US
UNKNOWN	4	117.5	16.5 PPM
UNKNOWN	8	128.2	1.3 US
UNKNOWN	7	200.3	1.1 US

# PHOTOVAC

CALIBRATED PEAK 2,1,1,1,1,1,1

SAMPLE LIBRARY 1 APR 20 1989 191.1  
 ANALYSIS # 18 15 CC RIM  
 INTERNAL TEMP 25 OVEN 40 C  
 GAIN 20 CAL RUN

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	12.5	50.8 PPM
BENZENE	2	14.9	154.3 PPM
TOLUENE	3	32.3	1.0 PPM
UNKNOWN	4	117.5	16.5 PPM
UNKNOWN	8	128.2	1.3 US
UNKNOWN	7	200.3	1.1 PPM

# PHOTOVAC



STOP # 307.7  
 SAMPLE LIBRARY 1 APR 15 89 8120  
 ANALYSIS # 5 15 CC  
 INTERNAL TEMP 22 OVEN 40 C  
 GAIN 20 CAL 1

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	14.3	32.2 PPM
UNKNOWN	2	16.1	42.8 PPM
UNKNOWN	3	30.7	131.0 PPM
UNKNOWN	4	121.5	2.112 PPM
UNKNOWN	5	142.5	12.14 PPM
UNKNOWN	6	161.7	177.3 PPM
UNKNOWN	7	203.8	112.1 PPM

# PHOTOVAC

CALIBRATED PEAK 1,1,1,1,1,1,1

SAMPLE LIBRARY 1 APR 15 89 8120  
 ANALYSIS # 5 15 CC  
 INTERNAL TEMP 21 OVEN 40 C  
 GAIN 20 CAL 1

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	14.3	32.2 PPM
UNKNOWN	2	16.1	42.8 PPM
UNKNOWN	3	30.7	131.0 PPM
BENZENE	4	121.5	2.112 PPM
TOLUENE	5	142.5	12.14 PPM
UNKNOWN	6	161.7	177.3 PPM
BENZENE	7	203.8	112.1 PPM

Typical Chromatograms of calibration runs.

# PHOTOVAC

START 10.12



STOP 0 10.12  
SAMPLE LIBRARY 1 JUL 11 83 13118  
ANALYSIS 0 11 15 CC MIN  
INTERNAL TEMP 20 OVEN 40 C  
GAIN 10 0.5-4.0

CONTINUED NAME PEAK R.T. ANALYSIS

CONTINUED NAME	PEAK	R.T.	ANALYSIS
10.12	1	10.12	200.0 WUS
10.12	2	10.12	112.0 WUS
10.12	3	112.0	20.22 FCB

# PHOTOVAC

START 10.12



STOP 0 10.12  
SAMPLE LIBRARY 1 JUL 11 83 13118  
ANALYSIS 0 12 15 CC MIN  
INTERNAL TEMP 20 OVEN 40 C  
GAIN 10 0.5-4.0 200 RUN

CONTINUED NAME PEAK R.T. ANALYSIS

CONTINUED NAME	PEAK	R.T.	ANALYSIS
10.12	1	10.12	200.0 WUS
10.12	2	10.12	112.0 WUS
10.12	3	112.0	20.22 FCB

# PHOTOVAC

START 10.12



STOP 0 10.12  
SAMPLE LIBRARY 1 JUL 20 1983 13118  
ANALYSIS 0 12 15 CC MIN  
INTERNAL TEMP 20 OVEN 40 C  
GAIN 10 0.5-4.0 3.0 FCB

CONTINUED NAME PEAK R.T. ANALYSIS

CONTINUED NAME	PEAK	R.T.	ANALYSIS
10.12	1	10.12	200.0 WUS
10.12	2	10.12	200.0 WUS
10.12	3	10.12	112.0 WUS
10.12	4	10.12	20.22 FCB
10.12	5	10.12	20.22 FCB
10.12	6	10.12	20.22 FCB

# PHOTOVAC

START 10.12



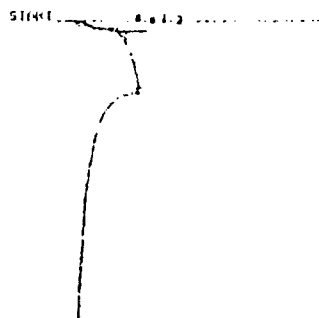
STOP 0 10.12  
SAMPLE LIBRARY 1 JUL 20 1983 13118  
ANALYSIS 0 14 15 CC MIN  
INTERNAL TEMP 20 OVEN 40 C  
GAIN 10 0.5-4.0 3.0 FCB *Relast*

CONTINUED NAME PEAK R.T. ANALYSIS

CONTINUED NAME	PEAK	R.T.	ANALYSIS
10.12	1	10.12	200.0 WUS
10.12	2	10.12	200.0 WUS
10.12	3	10.12	112.0 WUS
10.12	4	10.12	20.22 FCB
10.12	5	10.12	20.22 FCB
10.12	6	10.12	20.22 FCB

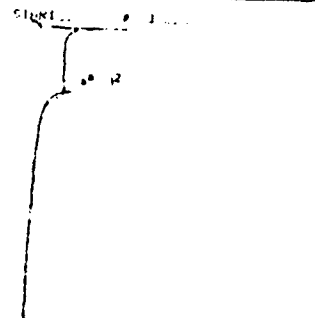
Typical Chromatograms of soil vapor samples with duplicate run.

# PHOTOVAC



STOP # 500.0  
 SAMPLE LIBRARY 1 JUL 12 83 3:31  
 ANALYSIS # 5 15 CC MIN  
 INTERNAL TEMP 31 OVEN 10 C  
 GAIN 10 BACKGROUND  
 COMPOUND NAME FLUO R.T. (RELATIVE)  
 IDENTIFICATION 2 10.9 100.0 100

# PHOTOVAC



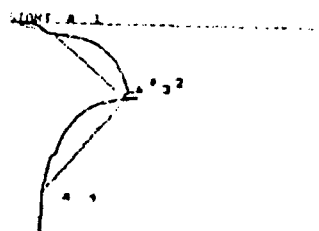
STOP # 500.0  
 SAMPLE LIBRARY 1 MAR 23 1983 11:40  
 ANALYSIS # 17 15 CC MIN  
 INTERNAL TEMP 31 OVEN 10 C  
 GAIN 10 BACKGROUND  
 COMPOUND NAME FLUO R.T. (RELATIVE)  
 IDENTIFICATION 2 10.9 100.0 100

# PHOTOVAC



STOP # 252.1  
 SAMPLE LIBRARY 1 JUL 12 83 3:30  
 ANALYSIS # 6 15 CC MIN  
 INTERNAL TEMP 32 OVEN 10 C  
 GAIN 10 BLANK  
 COMPOUND NAME FLUO R.T. (RELATIVE)  
 IDENTIFICATION 1 10.9 100.0 100

# PHOTOVAC



STOP # 210.1  
 SAMPLE LIBRARY 1 JUN 26 83 13:29  
 ANALYSIS # 16 15 CC MIN  
 INTERNAL TEMP 33 OVEN 10 C  
 GAIN 20 BLANK  
 COMPOUND NAME FLUO R.T. (RELATIVE)  
 IDENTIFICATION 1 10.9 100.0 100  
 IDENTIFICATION 2 11.0 100.0 100  
 IDENTIFICATION 3 11.1 100.0 100

Typical Chromatograms from blank/background samples.

APPENDIX K

SOIL CHEMICAL DATA  
SURFACE SOIL SAMPLES  
NOVEMBER 1989

PARAMETER	UNIT	FTAB11	FTAB12	FTAB21	FTAB22
1,2,4-TRICHLOROBENZENE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
1,2-DICHLOROBENZENE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
1,2-DIPHENYLHYDRAZINE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
1,3-DICHLOROBENZENE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
1,4-DICHLOROBENZENE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
2,4,5-TRICHLOROPHENOL	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
2,4,6-TRICHLOROPHENOL	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
2,4-DICHLOROPHENOL	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
2,4-DIMETHYLPHENOL	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
2,4-DINITROPHENOL	mg/kg	BDL 20.000000	BDL 10.000000	BDL 40.000000	BDL 25.000000
2-CHLORONAPHTHALENE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
2-CHLOROPHENOL	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
2-METHYL-4,6-DINITROPHENOL	mg/kg	BDL 20.000000	BDL 10.000000	BDL 40.000000	BDL 25.000000
2-METHYLNAPHTHALENE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
2-METHYLPHENOL	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
2-NITROANILINE	mg/kg	BDL 20.000000	BDL 10.000000	BDL 40.000000	BDL 25.000000
2-NITROPHENOL	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
3,3-DICHLOROBENZIDINE	mg/kg	BDL 8.000000	BDL 4.000000	BDL 16.000000	BDL 10.000000
3-NITROANILINE	mg/kg	BDL 20.000000	BDL 10.000000	BDL 40.000000	BDL 25.000000
4-BROMOPHENYL ETHER	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
4-CHLORO-3-METHYLPHENOL	mg/kg	BDL 8.000000	BDL 4.000000	BDL 16.000000	BDL 10.000000
4-CHLOROANILINE	mg/kg	BDL 8.000000	BDL 4.000000	BDL 16.000000	BDL 10.000000
4-CHLOROPHENYL PHENYL ETHER	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
4-METHYLPHENOL	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
4-NITROANILINE	mg/kg	BDL 20.000000	BDL 10.000000	BDL 40.000000	BDL 25.000000
4-NITROPHENOL	mg/kg	BDL 20.000000	BDL 10.000000	BDL 40.000000	BDL 25.000000
ACENAPHTHENE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
ACENAPHTHYLENE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
ANILINE	mg/kg	BDL 8.000000	BDL 4.000000	BDL 16.000000	BDL 10.000000
ANTHRACENE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
BFNIZIDINE	mg/kg	BDL 20.000000	BDL 10.000000	BDL 40.000000	BDL 25.000000
BENZO(a)ANTHRACENE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
BENZO(a)PYRENE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
BENZO(b)FLUORANTHENE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
BENZO(g,h,i)PERYLENE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
BENZO(k)FLUORANTHENE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
BENZOIC ACID	mg/kg	BDL 20.000000	BDL 10.000000	BDL 40.000000	BDL 25.000000
BENZYL ALCOHOL	mg/kg	BDL 8.000000	BDL 4.000000	BDL 16.000000	BDL 10.000000
BIS(2-CHLOROETHOXY)METHANE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
BIS(2-CHLOROETHYL)ETHER	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
BIS(2-CHLOROISOPROPYL)ETHER	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
BUTYLPHENYLPHTHALATE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
CHRYSENE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
DI-N-OCTYLPHTHALATE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
DIBENZO(a,h)ANTHRACENE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
DIBENZOFURAN	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
DIBUTYLPHTHALATE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
DIETHYL PHTHALATE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
DIMETHYL PHTHALATE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
FLUORANTHENE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
FLUCRENE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
HEXACHLOROBENZENE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
HEXACHLOROBUTADIENE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000
HEXACHLOROCYCLOPENTADIENE	mg/kg	BDL 4.000000	BDL 2.000000	BDL 8.000000	BDL 5.000000

BDL Below Detection Limit  
NA Not Analyzed  
#7 Diluted Out

PARAMETER	UNIT	FTAB11		FTAB12		FTAB21		FTAB22	
HEXACHLOROETHANE	mg/kg	BDL	4.000000	BDL	2.000000	BDL	8.000000	BDL	5.000000
INDENO(1,2,3-c,d)PYRENE	mg/kg	BDL	4.000000	BDL	2.000000	BDL	8.000000	BDL	5.000000
ISOPHORONE	mg/kg	BDL	4.000000	BDL	2.000000	BDL	8.000000	BDL	5.000000
N-NITROSO-DI-METHYLAMINE	mg/kg	BDL	4.000000	BDL	2.000000	BDL	8.000000	BDL	5.000000
N-NITROSO-DI-N-PROPYLAMINE	mg/kg	BDL	4.000000	BDL	2.000000	BDL	8.000000	BDL	5.000000
N-NITROSO-DI-PHENYLAMINE	mg/kg	BDL	4.000000	BDL	2.000000	BDL	8.000000	BDL	5.000000
NAPHTHALENE	mg/kg	BDL	4.000000	BDL	2.000000	BDL	8.000000	BDL	5.000000
NITROBENZENE	mg/kg	BDL	4.000000	BDL	2.000000	BDL	8.000000	BDL	5.000000
PENTACHLOROPHENOL	mg/kg	BDL	20.000000	BDL	10.000000	BDL	40.000000	BDL	25.000000
PHENANTHRENE	mg/kg	BDL	4.000000	BDL	2.000000	BDL	8.000000	BDL	5.000000
PHENOL	mg/kg	BDL	4.000000	BDL	2.000000	BDL	8.000000	BDL	5.000000
PYRENE	mg/kg	BDL	4.000000	BDL	2.000000	BDL	8.000000	BDL	5.000000
2,4-DINITROTOLUENE	mg/kg	BDL	4.000000	BDL	2.000000	BDL	8.000000	BDL	5.000000
2,6-DINITROTOLUENE	mg/kg	BDL	4.000000	BDL	2.000000	BDL	8.000000	BDL	5.000000
ANTIMONY	mg/kg	BDL	.500000	BDL	.499000	BDL	.499000	BDL	.499000
ARSENIC	mg/kg		6.000000		4.400000		3.000000		2.400000
BERYLLIUM	mg/kg		1.400000		1.300000		1.200000		11.000000
CADMIUM	mg/kg		17.300000		6.490000		.629000		.669000
CHROMIUM	mg/kg		28.000000		23.000000		16.700000		17.700000
COPPER	mg/kg		74.100000		38.200000		13.100000		13.100000
LEAD	mg/kg		352.000000		126.000000		96.500000		165.000000
MERCURY	mg/kg	BDL	.100000	BDL	.100000	BDL	.100000	BDL	.100000
NICKEL	mg/kg		26.700000		16.600000		10.600000		11.500000
SELENIUM	mg/kg	BDL	.500000	BDL	.499000	BDL	.499000	BDL	.499000
SILICON	mg/kg		25.800000		25.900000		31.800000		24.900000
SILVER	mg/kg		.200000	BDL	.100000		.299000	BDL	.100000
THALLIUM	mg/kg	BDL	.100000	BDL	.100000	BDL	.100000	BDL	.100000
ZINC	mg/kg		299.000000		138.000000		64.700000		71.000000
PCB 1016	mg/kg	BDL	.003000	BDL	.003000	BDL	.003000	BDL	.003000
PCB 1221	mg/kg	BDL	.003000	BDL	.003000	BDL	.003000	BDL	.003000
PCB 1232	mg/kg	BDL	.003000	BDL	.003000	BDL	.003000	BDL	.003000
PCB 1242	mg/kg	BDL	.003000	BDL	.003000	BDL	.003000	BDL	.003000
PCB 1248	mg/kg	BDL	.003000	BDL	.003000	BDL	.003000	BDL	.003000
PCB 1254	mg/kg	BDL	.003000	BDL	.003000	BDL	.003000	BDL	.003000
PCB 1260	mg/kg		.340000		.340000	BDL	.003000		.280000
ALDRIN	mg/kg	BDL	.000300	BDL	.000300	BDL	.000300	BDL	.000300
CHLORDANE	mg/kg	BDL	.003000	BDL	.003000	BDL	.003000	BDL	.003000
DIELDRIN	mg/kg	BDL	.000300	BDL	.000300	BDL	.000300	BDL	.000300
ENDOSULFAN I	mg/kg	BDL	.000300	BDL	.000300	BDL	.000300	BDL	.000300
ENDOSULFAN II	mg/kg	BDL	.000300	BDL	.000300	BDL	.000300	BDL	.000300
ENDOSULFAN SULFATE	mg/kg	BDL	.000300	BDL	.000300	BDL	.000300	BDL	.000300
ENDRIN	mg/kg	BDL	.000300	BDL	.000300	BDL	.000300	BDL	.000300
ENDRIN ALDEHYDE	mg/kg	BDL	.000300	BDL	.000300	BDL	.000300	BDL	.000300
HEPTACHLOR	mg/kg	BDL	.000300	BDL	.001000	BDL	.000300	BDL	.000300
HEPTACHLOR EPOXIDE	mg/kg	BDL	.000300	BDL	.000300	BDL	.000300	BDL	.000300
METHOXYCHLOR	mg/kg	BDL	.000300	BDL	.000300	BDL	.000300	BDL	.000300
PPDDD	mg/kg		.031000		.011000	BDL	.000300		.004800
PPDDE	mg/kg		.004200		.004300	BDL	.000300		.003400
PPDDT	mg/kg	BDL	.000300	BDL	.000300	BDL	.000300		.015600
TOXAPHENE	mg/kg	BDL	.003000	BDL	.003000	BDL	.003000	BDL	.003000
a-BHC	mg/kg	BDL	.000300	BDL	.000300	BDL	.000300	BDL	.000300
b-BHC	mg/kg	BDL	.000300	BDL	.000300	BDL	.000300	BDL	.000300
d-BHC	mg/kg	BDL	.000300	BDL	.000300	BDL	.000300	BDL	.000300
g-BHC	mg/kg	BDL	.000300	BDL	.000300	BDL	.000300	BDL	.000300
1,1,1-TRICHLOROETHANE	mg/kg	BDL	.025000	BDL	.025000	BDL	.025000	BDL	.025000

BDL Below Detection Limit  
NA Not Analyzed  
#7 Diluted Out

PARAMETER	UNIT	FTAB11		FTAB12		FTAB21		FTAB22	
1,1,2,2-TETRACHLOROETHANE	mg/kg	BDL	.025000	BDL	.025000	BDL	.025000	BDL	.025000
1,1,2-TRICHLOROETHANE	mg/kg	BDL	.025000	BDL	.025000	BDL	.025000	BDL	.025000
1,1-DICHLOROETHANE	mg/kg	BDL	.025000	BDL	.025000	BDL	.025000	BDL	.025000
1,1-DICHLOROETHENE	mg/kg	BDL	.025000	BDL	.025000	BDL	.025000	BDL	.025000
1,2-DICHLOROETHANE	mg/kg	BDL	.025000	BDL	.025000	BDL	.025000	BDL	.025000
1,2-DICHLOROPROPANE	mg/kg	BDL	.025000	BDL	.025000	BDL	.025000	BDL	.025000
2-BUTANONE	mg/kg	BDL	.500000	BDL	.500000	BDL	.500000	BDL	.500000
2-CHLOROETHYL VINYLETHER	mg/kg	BDL	.050000	BDL	.050000	BDL	.050000	BDL	.050000
2-HEXANONE	mg/kg	BDL	.250000	BDL	.250000	BDL	.250000	BDL	.250000
4-METHYL-2-PENTANONE	mg/kg	BDL	.250000	BDL	.250000	BDL	.250000	BDL	.250000
ACETONE	mg/kg	BDL	.500000	BDL	.500000	BDL	.500000	BDL	.500000
ACROLEIN	mg/kg	BDL	.500000	BDL	.500000	BDL	.500000	BDL	.500000
ACRYLONITRILE	mg/kg	BDL	.500000	BDL	.500000	BDL	.500000	BDL	.500000
BENZENE	mg/kg	BDL	.025000	BDL	.025000	BDL	.025000	BDL	.025000
BROMODICHLOROMETHANE	mg/kg	BDL	.025000	BDL	.025000	BDL	.025000	BDL	.025000
BROMOFORM	mg/kg	BDL	.025000	BDL	.025000	BDL	.025000	BDL	.025000
BROMOMETHANE	mg/kg	BDL	.050000	BDL	.050000	BDL	.050000	BDL	.050000
CARBON TETRACHLORIDE	mg/kg	BDL	.025000	BDL	.025000	BDL	.025000	BDL	.025000
CARBONDISULFIDE	mg/kg	BDL	.025000	BDL	.025000	BDL	.025000	BDL	.025000
CHLOROBENZENE	mg/kg	BDL	.025000	BDL	.025000	BDL	.025000	BDL	.025000
CHLOROETHANE	mg/kg	BDL	.050000	BDL	.050000	BDL	.050000	BDL	.050000
CHLOROFORM	mg/kg	BDL	.025000	BDL	.025000	BDL	.025000	BDL	.025000
CHLOROMETHANE	mg/kg	BDL	.050000	BDL	.050000	BDL	.050000	BDL	.050000
CIS-1,2-DICHLOROETHENE	mg/kg	BDL	.025000	BDL	.025000	BDL	.025000	BDL	.025000
CIS-1,3-DICHLOROPROPENE	mg/kg	BDL	.025000	BDL	.025000	BDL	.025000	BDL	.025000
DIBROMOCHLOROMETHANE	mg/kg	BDL	.025000	BDL	.025000	BDL	.025000	BDL	.025000
ETHYLBENZENE	mg/kg	BDL	.025000	BDL	.025000	BDL	.025000	BDL	.025000
METHYLENE CHLORIDE	mg/kg		.042000		.038000		.150000		.069000
STYRENE	mg/kg	BDL	.025000	BDL	.025000	BDL	.025000	BDL	.025000
T-XYLENE	mg/kg	BDL	.025000	BDL	.025000	BDL	.025000	BDL	.025000
TETRACHLOROETHENE	mg/kg	BDL	.025000	BDL	.025000	BDL	.025000	BDL	.025000
TOLUENE	mg/kg	BDL	.025000	BDL	.025000	BDL	.025000	BDL	.025000
TRANS-1,2-DICHLOROETHENE	mg/kg	BDL	.025000	BDL	.025000	BDL	.025000	BDL	.025000
TRANS-1,3-DICHLOROPROPENE	mg/kg	BDL	.025000	BDL	.025000	BDL	.025000	BDL	.025000
TRICHLOROETHENE	mg/kg	BDL	.025000	BDL	.025000	BDL	.025000	BDL	.025000
VINYL ACETATE	mg/kg	BDL	.250000	BDL	.250000	BDL	.250000	BDL	.250000
VINYL CHLORIDE	mg/kg	BDL	.050000	BDL	.050000	BDL	.050000	BDL	.050000
2,4,6-TRIBROMOPHENOL-S	μ		91.600000		71.600000	#7	.000000		59.000000
2-FLUOROBIPHENYL-S	μ		60.100000		55.700000		70.400000		85.500000
2-FLUOROPHENOL-S	μ		50.000000		40.100000		35.200000		56.800000
NITROBENZENE-D5-S	μ		58.900000		53.200000		47.400000		85.300000
P-TERPHEYL-D14-S	μ		134.000000		71.600000	#7	.000000	#7	.000000
PHENOL-D5-S	μ		46.400000		47.300000		53.700000		75.900000
1,2-DICHLOROETHANE-D4-S	μ		111.000000		104.000000		63.700000		102.000000
4-BROMOFLUOROBENZENE-S	μ		114.000000		110.000000		112.000000		93.900000
TOLUENE-D8-S	μ		101.000000		95.200000		94.500000		90.300000

BDL Below Detection Limit  
NA Not Analyzed  
#7 Diluted Out

PARAMETER	UNIT	FTAB23	FTAB24	FTAB2DD1	FTAB2DD2
1,2,4-TRICHLOROBENZENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
1,2-DICHLOROBENZENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
1,2-DIPHENYLHYDRAZINE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
1,3-DICHLOROBENZENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
1,4-DICHLOROBENZENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
2,4,5-TRICHLOROPHENOL	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
2,4,6-TRICHLOROPHENOL	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
2,4-DICHLOROPHENOL	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
2,4-DIMETHYLPHENOL	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
2,4-DINITROPHENOL	mg/kg	BDL 40.000000	BDL 125.000000	BDL 125.000000	BDL 125.000000
2-CHLORONAPHTHALENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
2-CHLOROPHENOL	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
2-METHYL-4,6-DINITROPHENOL	mg/kg	BDL 40.000000	BDL 125.000000	BDL 125.000000	BDL 125.000000
2-METHYLNAPHTHALENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
2-METHYLPHENOL	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
2-NITROANILINE	mg/kg	BDL 40.000000	BDL 125.000000	BDL 125.000000	BDL 125.000000
2-NITROPHENOL	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
3,3-DICHLOROBENZIDINE	mg/kg	BDL 16.000000	BDL 50.000000	BDL 50.000000	BDL 50.000000
3-NITROANILINE	mg/kg	BDL 40.000000	BDL 125.000000	BDL 125.000000	BDL 125.000000
4-BROMOPHENYL ETHER	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
4-CHLORO-3-METHYLPHENOL	mg/kg	BDL 16.000000	BDL 50.000000	BDL 50.000000	BDL 50.000000
4-CHLOROANILINE	mg/kg	BDL 16.000000	BDL 50.000000	BDL 50.000000	BDL 50.000000
4-CHLOROPHENYL PHENYL ETHER	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
4-METHYLPHENOL	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
4-NITROANILINE	mg/kg	BDL 40.000000	BDL 125.000000	BDL 125.000000	BDL 125.000000
4-NITROPHENOL	mg/kg	BDL 40.000000	BDL 125.000000	BDL 125.000000	BDL 125.000000
ACENAPHTHENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
ACENAPHTHYLENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
ANILINE	mg/kg	BDL 16.000000	BDL 50.000000	BDL 50.000000	BDL 50.000000
ANTHRACENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
BENZIDINE	mg/kg	BDL 40.000000	BDL 125.000000	BDL 125.000000	BDL 125.000000
BENZO(a)ANTHRACENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
BENZO(a)PYRENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
BENZO(b)FLUORANTHENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
BENZO(g,h,i)PERYLENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
BENZO(k)FLUORANTHENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
BENZOIC ACID	mg/kg	BDL 40.000000	BDL 125.000000	BDL 125.000000	BDL 125.000000
BENZYL ALCOHOL	mg/kg	BDL 16.000000	BDL 50.000000	BDL 50.000000	BDL 50.000000
BIS(2-CHLOROETHOXY)METHANE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
BIS(2-CHLOROETHYL)ETHER	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
BIS(2-CHLOROISOPROPYL)ETHER	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
BUTYLBENZYL PHTHALATE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
CHRYSENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
DI-N-OCTYL PHTHALATE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
DIBENZO(a,h)ANTHRACENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
DIBENZOFURAN	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
DIBUTYL PHTHALATE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
DIETHYL PHTHALATE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
DIMETHYL PHTHALATE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
FLUORANTHENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
FLUORENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
HEXACHLOROBENZENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
HEXACHLOROBUTADIENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
HEXACHLOROCYCLOPENTADIENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000

BDL Below Detection Limit  
NA Not Analyzed  
97 Diluted Out



PARAMETER	UNIT	FTAB23	FTAB24	FTAB2DD1	FTAB2DD2
HEXACHLOROETHANE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
INDENO(1,2,3-c,d)PYRENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
ISOPHORONE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
N-NITROSO-DI-METHYLAMINE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
N-NITROSO-DI-N-PROPYLAMINE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
N-NITROSO-DI-PHENYLAMINE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
NAPHTHALENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
NITROBENZENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
PENTACHLOROPHENOL	mg/kg	BDL 40.000000	BDL 125.000000	BDL 125.000000	BDL 125.000000
PHENANTHRENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
PHENOL	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
PYRENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
2,4-DINITROTOLUENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
2,6-DINITROTOLUENE	mg/kg	BDL 8.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
ANTIMONY	mg/kg	BDL .500000	BDL .499000	BDL .499000	BDL .500000
ARSENIC	mg/kg	3.100000	5.390000	4.690000	4.900000
BERYLLIUM	mg/kg	1.000000	1.600000	1.400000	1.200000
CADMIUM	mg/kg	.760000	.329000	.788000	4.700000
CHROMIUM	mg/kg	15.800000	24.500000	16.400000	32.000000
COPPER	mg/kg	10.500000	12.100000	14.100000	25.000000
LEAD	mg/kg	96.300000	34.800000	109.000000	136.000000
MERCURY	mg/kg	BDL .100000	BDL .100000	BDL .100000	.652000
NICKEL	mg/kg	8.300000	13.700000	9.580000	41.800000
SELENIUM	mg/kg	BDL .500000	BDL .499000	BDL .499000	BDL .500000
SILICON	mg/kg	31.000000	43.300000	23.900000	34.900000
SILVER	mg/kg	BDL .100000	BDL .100000	BDL .100000	.100000
THALLIUM	mg/kg	BDL .100000	BDL .100000	BDL .100000	BDL .100000
ZINC	mg/kg	53.600000	35.100000	64.300000	128.000000
PCB 1016	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
PCB 1221	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
PCB 1232	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
PCB 1242	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
PCB 1248	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
PCB 1254	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
PCB 1260	mg/kg	.210000	BDL .003000	.100000	.320000
ALDRIN	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
CHLORDANE	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
DIELDRIN	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
ENDOSULFAN I	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
ENDOSULFAN II	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
ENDOSULFAN SULFATE	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
ENDRIN	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
ENDRIN ALDEHYDE	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
HEPTACHLOR	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
HEPTACHLOR EPOXIDE	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
METHOXYCHLOR	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
PPDDD	mg/kg	BDL .000300	BDL .000300	BDL .000300	.061000
PPDDE	mg/kg	BDL .000300	BDL .000300	.000700	.020000
PPDDT	mg/kg	BDL .000300	BDL .000300	BDL .000300	.150000
TOXAPHENE	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
a-BHC	mg/kg	BDL .000300	BDL .000300	BDL .000300	.000500
b-BHC	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
d-BHC	mg/kg	.009300	BDL .000300	BDL .000300	BDL .000300
g-BHC	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
1,1,1-TRICHLOROETHANE	mg/kg	BDL 5.000000	BDL 5.000000	BDL .025000	BDL .025000

BDL Below Detection Limit  
 NA Not Analyzed  
 #7 Diluted Out

PARAMETER	UNIT	FTAB23		FTAB24		FTAB2DD1		FTAB2DD2	
1,1,2,2-TETRACHLOROETHANE	mg/kg	BDL	5.000000	BDL	5.000000	BDL	.025000	BDL	.025000
1,1,2-TRICHLOROETHANE	mg/kg	BDL	5.000000	BDL	5.000000	BDL	.025000	BDL	.025000
1,1-DICHLOROETHANE	mg/kg	BDL	5.000000	BDL	5.000000	BDL	.025000	BDL	.025000
1,1-DICHLOROETHENE	mg/kg	BDL	5.000000	BDL	5.000000	BDL	.025000	BDL	.025000
1,2-DICHLOROETHANE	mg/kg	BDL	5.000000	BDL	5.000000	BDL	.025000	BDL	.025000
1,2-DICHLOROPROPANE	mg/kg	BDL	5.000000	BDL	5.000000	BDL	.025000	BDL	.025000
2-BUTANONE	mg/kg	BDL	100.000000	BDL	100.000000	BDL	.500000	BDL	.500000
2-CHLOROETHYL VINYLETHER	mg/kg	BDL	10.000000	BDL	10.000000	BDL	.050000	BDL	.050000
2-HEXANONE	mg/kg	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
4-METHYL-2-PENTANONE	mg/kg	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
ACETONE	mg/kg	BDL	100.000000	BDL	100.000000	BDL	.500000	BDL	.500000
ACROLEIN	mg/kg	BDL	100.000000	BDL	100.000000	BDL	.500000	BDL	.500000
ACRYLONITRILE	mg/kg	BDL	100.000000	BDL	100.000000	BDL	.500000	BDL	.500000
BENZENE	mg/kg	BDL	5.000000	BDL	5.000000	BDL	.025000	BDL	.025000
BROMODICHLOROMETHANE	mg/kg	BDL	5.000000	BDL	5.000000	BDL	.025000	BDL	.025000
BROMOFORM	mg/kg	BDL	5.000000	BDL	5.000000	BDL	.025000	BDL	.025000
BROMOMETHANE	mg/kg	BDL	10.000000	BDL	10.000000	BDL	.050000	BDL	.050000
CARBON TETRACHLORIDE	mg/kg	BDL	5.000000	BDL	5.000000	BDL	.025000	BDL	.025000
CARBONDISULFIDE	mg/kg	BDL	5.000000	BDL	5.000000	BDL	.025000	BDL	.025000
CHLOROPHENYLENE	mg/kg	BDL	5.000000	BDL	5.000000	BDL	.025000	BDL	.025000
CHLOROETHANE	mg/kg	BDL	10.000000	BDL	10.000000	BDL	.050000	BDL	.050000
CHLOROFORM	mg/kg	BDL	5.000000	BDL	5.000000	BDL	.025000	BDL	.025000
CHLOROMETHANE	mg/kg	BDL	10.000000	BDL	10.000000	BDL	.050000	BDL	.050000
CIS-1,2-DICHLOROETHENE	mg/kg	BDL	5.000000	BDL	5.000000	BDL	.025000	BDL	.025000
CIS-1,3-DICHLOROPROPENE	mg/kg	BDL	5.000000	BDL	5.000000	BDL	.025000	BDL	.025000
DIBROMOCHLOROMETHANE	mg/kg	BDL	5.000000	BDL	5.000000	BDL	.025000	BDL	.025000
ETHYLBENZENE	mg/kg	BDL	5.000000	20.000000	BDL	.025000	BDL	.025000	
METHYLENE CHLORIDE	mg/kg	BDL	5.000000	BDL	5.000000	BDL	.025000		.420000
STYRENE	mg/kg	BDL	5.000000	BDL	5.000000	BDL	.025000	BDL	.025000
T-XYLENE	mg/kg		33.000000	30.000000	BDL	.025000	BDL	.025000	
TETRACHLOROETHENE	mg/kg	BDL	5.000000	6.000000	BDL	.025000	BDL	.025000	
TOLUENE	mg/kg	BDL	5.000000	27.000000	BDL	.025000	BDL	.025000	
TRANS-1,2-DICHLOROETHENE	mg/kg	BDL	5.000000	BDL	5.000000	BDL	.025000	BDL	.025000
TRANS-1,3-DICHLOROPROPENE	mg/kg	BDL	5.000000	BDL	5.000000	BDL	.025000	BDL	.025000
TRICHLOROETHENE	mg/kg	BDL	5.000000	BDL	5.000000	BDL	.025000	BDL	.025000
VINYL ACETATE	mg/kg	BDL	50.000000	BDL	50.000000	BDL	.250000	BDL	.250000
VINYL CHLORIDE	mg/kg	BDL	10.000000	BDL	10.000000	BDL	.050000	BDL	.050000
2,4,6-TRIBROMOPHENOL-S	I	#7	.000000	#7	.000000	#7	.000000	#7	.000000
2-FLUOROBIPHENYL-S	I	#7	.000000	#7	.000000	#7	.000000	#7	.000000
2-FLUOROPHENOL-S	I		53.300000	#7	.000000	#7	.000000	#7	.000000
NITROBENZENE-D5-S	I		43.000000	#7	.000000	#7	.000000	#7	.000000
P-TERPHEYL-D14-S	I	#7	.000000	#7	.000000	#7	.000000	#7	.000000
PHENOL-D5-S	I		59.700000	#7	.000000	#7	.000000	#7	.000000
1,2-DICHLOROETHANE-D4 S	I		122.000000	115.000000		96.500000		93.900000	
4-BROMOFLUOROBENZENE-S	I		121.000000	128.000000		95.400000		107.000000	
TOLUENE-D8-S	I		84.000000	99.400000		106.000000		87.800000	

BDL Below Detection Limit  
NA Not Analyzed  
#7 Diluted Out

352	Below Collection Limit
NA	Not Analyzed
01	Deleted Out

PARAMETER	UNIT	FTAB31	FTAB32	FTAB33	FTAB34
HEXACHLOROBENZENE	mg/kg	BDL 25.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
HEXACHLOROBUTADIENE	mg/kg	BDL 25.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
HEXACHLOROCYCLOPENTADIENE	mg/kg	BDL 25.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
HEXACHLOROETHANE	mg/kg	BDL 25.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
INDENO(1,2,3-c,d)PYRENE	mg/kg	BDL 25.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
ISOPHORONE	mg/kg	BDL 25.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
N-NITROSO-DI-METHYLAMINE	mg/kg	BDL 25.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
N-NITROSO-DI-N-PROPYLAMINE	mg/kg	BDL 25.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
N-NITROSO-DI-PHENYLAMINE	mg/kg	BDL 25.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
NAPHTHALENE	mg/kg	BDL 25.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
NITROBENZENE	mg/kg	BDL 25.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
PENTACHLOROPHENOL	mg/kg	BDL 125.000000	BDL 125.000000	BDL 125.000000	BDL 125.000000
PHENANTHRENE	mg/kg	BDL 25.000000	BDL 25.000000	BDL 25.000000	63.000000
PHENOL	mg/kg	BDL 25.000000	BDL 25.000000	BDL 25.000000	3DL 25.000000
PYRENE	mg/kg	BDL 25.000000	BDL 25.000000	BDL 25.000000	6.200000
2,4-DINITROTCUENE	mg/kg	BDL 25.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
2,6-DINITROTCUENE	mg/kg	BDL 25.000000	BDL 25.000000	BDL 25.000000	BDL 25.000000
ANTIMONY	mg/kg	BDL .499000	BDL .500000	BDL .500000	BDL .499000
ARSENIC	mg/kg	2.390000	1.900000	3.400000	1.900000
BERYLLIUM	mg/kg	.798000	.700000	1.000000	.899000
CADMIUM	mg/kg	2.000000	.540000	.400000	4.490000
CHROMIUM	mg/kg	28.700000	15.200000	16.400000	33.100000
COPPER	mg/kg	36.400000	11.000000	9.200000	74.400000
LEAD	mg/kg	277.000000	254.000000	51.100000	503.000000
MERCURY	mg/kg	BDL .100000	BDL .100000	BDL .100000	BDL .100000
NICKEL	mg/kg	19.000000	8.900000	9.200000	18.200000
SELENIUM	mg/kg	BDL .499000	BDL .500000	BDL .500000	BDL .499000
SILICON	mg/kg	28.100000	26.500000	26.300000	22.100000
SILVER	mg/kg	.100000	.600000	.900000	4.190000
THALLIUM	mg/kg	BDL .100000	BDL .100000	BDL .100000	BDL .100000
ZINC	mg/kg	409.000000	92.700000	54.100000	648.000000
PCB 1016	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
PCB 1221	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
PCB 1232	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
PCB 1242	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
PCB 1248	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
PCB 1254	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
PCB 1250	mg/kg	4.300000	.940000	.570000	BDL .003000
ALDRIN	mg/kg	BDL .000300	BDL .000300	.000900	BDL .000300
CHLORDANE	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
DIELDRIN	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
ENDOSULFAN I	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
ENDOSULFAN II	mg/kg	BDL .000300	.034000	BDL .000300	BDL .000300
ENDOSULFAN SULFATE	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
ENDRIN	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
ENDRIN ALDEHYDE	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
HEPTACHLOR	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
HEPTACHLOR EPOXIDE	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
METHOXYCHLOR	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
PPDD	mg/kg	.560000	.250000	220000	BDL .000300
PPDE	mg/kg	BDL .000300	.023000	.070000	BDL .000300
PPDT	mg/kg	BDL .000300	BDL .000300	BDL .000300	.030000
TOXAPHENE	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
a-BHC	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
b-BHC	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300

BDL Below Detection Limit  
NA Not Analyzed  
#? Diluted Out

PARAMETER	UNIT	FTAB31	FTAB32	FTAB33	FTAB34
d-BHC	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
g-BHC	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
1,1,1-TRICHLOROETHANE	mg/kg	BDL .050000	BDL .025000	BDL 6.250000	BDL .625000
1,1,2,2-TETRACHLOROETHANE	mg/kg	BDL .050000	BDL .025000	BDL 6.250000	BDL .625000
1,1,2-TRICHLOROETHANE	mg/kg	BDL .050000	BDL .025000	BDL 6.250000	BDL .625000
1,1-DICHLOROETHANE	mg/kg	BDL .050000	BDL .025000	BDL 6.250000	BDL .625000
1,1-DICHLOROETHENE	mg/kg	BDL .050000	BDL .025000	BDL 6.250000	BDL .625000
1,2-DICHLOROETHANE	mg/kg	BDL .050000	BDL .025000	BDL 6.250000	BDL .625000
1,2-DICHLOROPROPANE	mg/kg	BDL .050000	BDL .025000	BDL 6.250000	BDL .625000
2-BUTANONE	mg/kg	BDL 1.000000	BDL .500000	BDL 125.000000	BDL 12.500000
2-CHLOROETHYL VINYL ETHER	mg/kg	BDL .100000	BDL .050000	BDL 12.500000	BDL 1.250000
2-HEXANONE	mg/kg	BDL .500000	BDL .250000	BDL 62.500000	BDL 6.250000
4-METHYL-2-PENTANONE	mg/kg	BDL .500000	BDL .250000	BDL 62.500000	BDL 6.250000
ACETONE	mg/kg	BDL 1.000000	BDL .500000	BDL 125.000000	BDL 12.500000
ACROLEIN	mg/kg	BDL 1.000000	BDL .500000	BDL 125.000000	BDL 12.500000
ACRYLONITRILE	mg/kg	BDL 1.000000	BDL .500000	BDL 125.000000	BDL 12.500000
BENZENE	mg/kg	BDL .050000	BDL .025000	BDL 6.250000	BDL .625000
BROMODICHLOROMETHANE	mg/kg	BDL .050000	BDL .025000	BDL 6.250000	BDL .625000
BROMOFORM	mg/kg	BDL .050000	BDL .025000	BDL 6.250000	BDL .625000
BROMOMETHANE	mg/kg	BDL .100000	BDL .050000	BDL 12.500000	BDL 1.250000
CARBON TETRACHLORIDE	mg/kg	BDL .050000	BDL .025000	BDL 6.250000	BDL .625000
CARBONDISULFIDE	mg/kg	BDL .050000	BDL .025000	BDL 6.250000	BDL .625000
CHLOROBENZENE	mg/kg	BDL .050000	BDL .025000	BDL 6.250000	BDL .625000
CHLOROETHANE	mg/kg	BDL .100000	BDL .050000	BDL 12.500000	BDL 1.250000
CHLOROFORM	mg/kg	BDL .050000	BDL .025000	BDL 6.250000	BDL .625000
CHLOROMETHANE	mg/kg	BDL .100000	BDL .050000	BDL 12.500000	BDL 1.250000
CIS-1,2-DICHLOROETHENE	mg/kg	BDL .050000	BDL .025000	BDL 6.250000	BDL .625000
CIS-1,3-DICHLOROPROPENE	mg/kg	BDL .050000	BDL .025000	BDL 6.250000	BDL .625000
DIBROMOCHLOROMETHANE	mg/kg	BDL .050000	BDL .025000	BDL 6.250000	BDL .625000
ETHYLENE	mg/kg	BDL .050000	BDL .025000	BDL 7.000000	BDL .700000
METHYLENE CHLORIDE	mg/kg	BDL .350000	BDL .175000	BDL 43.750000	BDL 4.375000
STYRENE	mg/kg	BDL .050000	BDL .025000	BDL 6.250000	BDL .625000
T-XYLENE	mg/kg	BDL .050000	BDL .025000	BDL 51.000000	BDL 5.100000
TETRACHLOROETHENE	mg/kg	BDL .280000	BDL .140000	BDL 35.000000	BDL 3.500000
TOLUENE	mg/kg	BDL .050000	BDL .025000	BDL 18.000000	BDL 1.800000
TRANS-1,2-DICHLOROETHENE	mg/kg	BDL .050000	BDL .025000	BDL 6.250000	BDL .625000
TRANS-1,3-DICHLOROPROPENE	mg/kg	BDL .050000	BDL .025000	BDL 6.250000	BDL .625000
TRICHLOROETHENE	mg/kg	BDL .050000	BDL .025000	BDL 6.250000	BDL .625000
VINYL ACETATE	mg/kg	BDL .050000	BDL .025000	BDL 62.500000	BDL 6.250000
VINYL CHLORIDE	mg/kg	BDL .100000	BDL .050000	BDL 12.500000	BDL 1.250000
2,4,6-TRIBROMOPHENOL-S	I	#7 .000000	#7 .000000	#7 .000000	#7 .000000
2-FLUOROBIPHENYL-S	I	#7 .000000	#7 .000000	#7 .000000	#7 .000000
2-FLUOROPHENOL-S	I	#7 .000000	#7 .000000	#7 .000000	#7 .000000
NITROBENZENE-D5-S	I	#7 .000000	#7 .000000	#7 .000000	#7 .000000
P-TERPHEYL-D14-S	I	#7 .000000	#7 .000000	#7 .000000	#7 .000000
PHENOL-D5-S	I	#7 .000000	#7 .000000	#7 .000000	#7 .000000
1,2-DICHLOROTHANE-D4-S	I	111.000000	108.000000	90.100000	121.000000
4-BROMOFLUOROBENZENE-S	I	31.000000	107.000000	104.000000	103.000000
TOLUENE-D8-S	I	75.000000	80.000000	120.000000	138.000000

BDL Below Detection Limit  
NA Not Analyzed  
#7 Diluted Out

PARAMETER	UNIT	FTAB3DD	FTAB3SP1	FTAB3SP2	FTAB3OF
1,2,4-TRICHLOROBENZENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
1,2-DICHLOROBENZENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
1,2-DIPHENYLEYDRAZINE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
1,3-DICHLOROBENZENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
1,4-DICHLOROBENZENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
2,4,5-TRICHLOROPHENOL	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
2,4,6-TRICHLOROPHENOL	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
2,4-DICHLOROPHENOL	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
2,4-DIMETHYLPHENOL	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
2,4-DINITROPHENOL	mg/kg	BDL 250.000000	BDL 125.000000	BDL 275.000000	BDL 3.000000
2-CHLORONAPHTHALENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
2-CHLOROPHENOL	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
2-METHYL-4,6-DINITROPHENOL	mg/kg	BDL 250.000000	BDL 125.000000	BDL 275.000000	BDL 3.000000
2-METHYLNAPHTHALENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
2-METHYLPHENOL	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
2-NITROANILINE	mg/kg	BDL 250.000000	BDL 125.000000	BDL 275.000000	BDL 3.000000
2-NITROPHENOL	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
3,3-DICHLOROBENZIDINE	mg/kg	BDL 100.000000	BDL 50.000000	BDL 110.000000	BDL 1.200000
3-NITROANILINE	mg/kg	BDL 250.000000	BDL 125.000000	BDL 275.000000	BDL 3.000000
4-BROMOPHENYL ETHER	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
4-CHLORO-3-METHYLPHENOL	mg/kg	BDL 100.000000	BDL 50.000000	BDL 110.000000	BDL 1.200000
4-CHLOROANILINE	mg/kg	BDL 100.000000	BDL 50.000000	BDL 110.000000	BDL 1.200000
4-CHLOROPHENYL PHENYL ETHER	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
4-METHYLPHENOL	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
4-NITROANILINE	mg/kg	BDL 250.000000	BDL 125.000000	BDL 275.000000	BDL 3.000000
4-NITROPHENOL	mg/kg	BDL 250.000000	BDL 125.000000	BDL 275.000000	BDL 3.000000
ACENAPHTHENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
ACENAPHTHYLENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
ANILINE	mg/kg	BDL 100.000000	BDL 50.000000	BDL 110.000000	BDL 1.200000
ANTHRACENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
BENZIDINE	mg/kg	BDL 250.000000	BDL 125.000000	BDL 275.000000	BDL 3.000000
BENZO(a)ANTHRACENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
BENZO(a)PYRENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
BENZO(b)FLUORANTHENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
BENZO(g,h,i)PERYLENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
BENZO(k)FLUORANTHENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
BENZOIC ACID	mg/kg	BDL 250.000000	BDL 125.000000	BDL 275.000000	BDL 3.000000
BENZYL ALCOHOL	mg/kg	BDL 100.000000	BDL 50.000000	BDL 110.000000	BDL 1.200000
BIS(2-CHLOROETHOXY)METHANE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
BIS(2-CHLOROETHYL)ETHER	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
BIS(2-CHLOROISOPROPYL)ETHER	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
BUTYLBENZYLPHTHALATE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
CHRYSENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
DI-N-OCTYLPHTHALATE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
DIBENZO(a,h)ANTHRACENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
DIBENZOFURAN	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
DIBUTYLPHTHALATE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
DIPHENYL PHTHALATE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
DIMETHYL PHTHALATE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
FLUORANTHENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
FLUORENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
HEXACHLOROBENZENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
HEXACHLOROBUTADIENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
HEXACHLOROCYCLOPENTADIENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000

BDL Below Detection Limit  
NA Not Analyzed  
#7 Diluted Out

PARAMETER	UNIT	FTAB3DD	FTAB3SP1	FTAB3SP2	FTAB3OF
HEXACHLOROETHANE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
INDENO(1,2,3-c,d)PYRENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
ISOPHORONE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
N-NITROSO-DI-METHYLAMINE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
N-NITROSO-DI-N-PROPYLAMINE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
N-NITROSO-DI-PHENYLAMINE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
NAPHTHALENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
NITROBENZENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
PENTACHLOROPHENOL	mg/kg	BDL 250.000000	BDL 125.000000	BDL 275.000000	BDL 3.000000
PHENANTHRENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
PHENOL	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
PYRENE	mg/kg	8.200000	BDL 25.000000	BDL 55.000000	BDL .600000
2,4-DINITROTOLUENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
2,6-DINITROTOLUENE	mg/kg	BDL 50.000000	BDL 25.000000	BDL 55.000000	BDL .600000
ANTIMONY	mg/kg	BDL .499000	BDL .499000	BDL .499000	BDL .499000
ARSENIC	mg/kg	2.200000	3.090000	2.400000	2.100000
BERYLLIUM	mg/kg	.999000	1.300000	.898000	.799000
CADMIUM	mg/kg	3.260000	1.270000	1.330000	3.310000
CHROMIUM	mg/kg	27.900000	31.100000	21.400000	6.290000
COPPER	mg/kg	30.900000	17.100000	17.900000	13.400000
LEAD	mg/kg	237.000000	192.000000	269.000000	18.000000
MERCURY	mg/kg	BDL .100000	BDL .100000	BDL .100000	BDL .100000
NICKEL	mg/kg	12.500000	10.400000	9.480000	5.690000
SELENIUM	mg/kg	BDL .499000	BDL .499000	BDL .499000	BDL .499000
SILICON	mg/kg	28.800000	27.600000	39.600000	19.400000
SILVER	mg/kg	.4.500000	.100000	.100000	.100000
THALLIUM	mg/kg	BDL .100000	BDL .100000	BDL .100000	BDL .100000
ZINC	mg/kg	140.000000	103.000000	123.000000	21.900000
PCB 1016	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
PCB 1221	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
PCB 1232	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
PCB 1242	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
PCB 1248	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
PCB 1254	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
PCB 1260	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
ALDRIN	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
CHLORDANE	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
DIELDRIN	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
ENDOSULFAN I	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
ENDOSULFAN II	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
ENDOSULFAN SULFATE	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
ENDRIN	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
ENDRIN ALDEHYDE	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
HEPTACHLOR	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
HEPTACHLOR ETOXIDE	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
METHOXYCHLOR	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
PPDDC	mg/kg	1.400000	.580000	.540000	.601900
PPDDE	mg/kg	.095000	BDL .000300	.048000	BDL .000300
PPDDY	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
TOXAPHENE	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
a-BHC	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
b-BHC	mg/kg	BDL .000300	.004700	BDL .000300	BDL .000300
d-BHC	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
g-BHC	mg/kg	BDL .000300	.003400	BDL .000300	BDL .000300
1,1,1-TRICHLOROETHANE	mg/kg	BDL 2.500000	BDL .025000	BDL .025000	BDL .025000

BDL Below Detection Limit  
NA Not Analyzed  
#7 Diluted Out

PARAMETER	UNIT	FTAB3DD		FTAB3SP1		FTAB3SP2		FTAB3OF	
1,1,2,2-TETRACHLOROETHANE	mg/kg	BDL	2.500000	BDL	.025000	BDL	.025000	BDL	.025000
1,1,2-TRICHLOROETHANE	mg/kg	BDL	2.500000	BDL	.025000	BDL	.025000	BDL	.025000
1,1-DICHLOROETHANE	mg/kg	BDL	2.500000	BDL	.025000	BDL	.025000	BDL	.025000
1,1-DICHLOROETHENE	mg/kg	BDL	5.000000	BDL	.025000	BDL	.025000	BDL	.025000
1,2-DICHLOROETHANE	mg/kg	BDL	2.500000	BDL	.025000	BDL	.025000	BDL	.025000
1,2-DICHLOROPROPANE	mg/kg	BDL	2.500000	BDL	.025000	BDL	.025000	BDL	.025000
2-BUTANONE	mg/kg	BDL	50.000000	BDL	.500000	BDL	.500000	BDL	.500000
2-CHLOROETHYL VINYLETHER	mg/kg	BDL	5.000000	BDL	.050000	BDL	.050000	BDL	.050000
2-HEXANONE	mg/kg	BDL	25.000000	BDL	.250000	BDL	.250000	BDL	.250000
4-METHYL-2-PENTANONE	mg/kg	BDL	25.000000	BDL	.250000	BDL	.250000	BDL	.250000
ACETONE	mg/kg	BDL	50.000000	BDL	1.800000	BDL	1.200000	BDL	2.900000
ACROLEIN	mg/kg	BDL	50.000000	BDL	.500000	BDL	.500000	BDL	.500000
ACRYLONITRILE	mg/kg	BDL	50.000000	BDL	.500000	BDL	.500000	BDL	.500000
BENZENE	mg/kg	BDL	2.500000	BDL	.025000	BDL	.025000	BDL	.025000
BROMODICHLOROMETHANE	mg/kg	BDL	2.500000	BDL	.025000	BDL	.025000	BDL	.025000
BROMOFORM	mg/kg	BDL	2.500000	BDL	.025000	BDL	.025000	BDL	.025000
BROMOMETHANE	mg/kg	BDL	5.000000	BDL	.050000	BDL	.050000	BDL	.050000
CARBON TETRACHLORIDE	mg/kg	BDL	2.500000	BDL	.025000	BDL	.025000	BDL	.025000
CARBONDISULFIDE	mg/kg	BDL	2.500000	BDL	.025000	BDL	.025000	BDL	.025000
CHLOROBENZENE	mg/kg	BDL	2.500000	BDL	.025000	BDL	.025000	BDL	.025000
CHLOROETHANE	mg/kg	BDL	5.000000	BDL	.050000	BDL	.050000	BDL	.050000
CHLOROFORM	mg/kg	BDL	2.500000	BDL	.025000	BDL	.025000	BDL	.025000
CHLORMETHANE	mg/kg	BDL	5.000000	BDL	.050000	BDL	.050000	BDL	.050000
CIS-1,2-DICHLOROETHENE	mg/kg	BDL	2.500000	BDL	.025000	BDL	.025000	BDL	.025000
CIS-1,3-DICHLOROPROPENE	mg/kg	BDL	2.500000	BDL	.025000	BDL	.025000	BDL	.025000
DIBROMOCHLOROMETHANE	mg/kg	BDL	2.500000	BDL	.025000	BDL	.025000	BDL	.025000
ETHYLBENZENE	mg/kg	BDL	3.200000	BDL	.025000	BDL	.025000	BDL	.025000
METHYLENE CHLORIDE	mg/kg	BDL	14.000000	BDL	.050000	BDL	.050000	BDL	.025000
STYRENE	mg/kg	BDL	2.500000	BDL	.025000	BDL	.025000	BDL	.025000
p-XYLENE	mg/kg	BDL	25.000000	BDL	.025000	BDL	.025000	BDL	.025000
TETRACHLOROETHENE	mg/kg	BDL	2.500000	BDL	.025000	BDL	.025000	BDL	.025000
TOLUENE	mg/kg	BDL	17.000000	BDL	.025000	BDL	.025000	BDL	.025000
TRANS-1,2-DICHLOROETHENE	mg/kg	BDL	2.500000	BDL	.025000	BDL	.025000	BDL	.025000
TRANS-1,3-DICHLOROPROPENE	mg/kg	BDL	2.500000	BDL	.025000	BDL	.025000	BDL	.025000
TRICHLOROETHENE	mg/kg	BDL	2.500000	BDL	.025000	BDL	.025000	BDL	.025000
VINYL ACETATE	mg/kg	BDL	25.000000	BDL	.250000	BDL	.250000	BDL	.250000
VINYL CHLORIDE	mg/kg	BDL	5.000000	BDL	.050000	BDL	.050000	BDL	.050000
2,4,6-TRIBROMOPHENOL-S	I	#7	.000000	#7	.000000	#7	.000000	72.300000	
2-FLUOROBIPHENYL-S	I	#7	.000000	#7	.000000	#7	.000000	57.000000	
2-FLUOROPHENOL-S	I	#7	.000000	#7	.000000	#7	.000000	10.300000	
NITROBENZENE-D5-S	I	#7	.000000	#7	.000000	#7	.000000	26.700000	
p-TERPHEENYL-D14-S	I	#7	.000000	#7	.000000	#7	.000000	56.400000	
PHENOL-D5-S	I	#7	.000000	#7	.000000	#7	.000000	30.000000	
1,2-DICHLOROETHANE-D4-S	I		84.000000		103.000000		105.000000	128.000000	
4-BROMOFLUOROBENZENE-S	I		83.200000		83.100000		126.000000	117.000000	
TOLUENE-D8-S	I		116.000000		82.400000		126.000000	85.800000	

BDL Below Detection Limit  
NA Not Analysed  
#7 Diluted Out



PARAMETER	UNIT	FTASH1	FTASH2	FTASH3	FTAF1
1,2,4-TRICHLOROBENZENE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
1,2-DICHLOROBENZENE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
1,2-DIPHENYLHYDRAZINE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
1,3-DICHLOROBENZENE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
1,4-DICHLOROBENZENE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
2,4,5-TRICHLOROPHENOL	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
2,4,6-TRICHLOROPHENOL	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
2,4-DICHLOROPHENOL	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
2,4-DIMETHYLPHENOL	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
2,4-DINITROPHENOL	mg/kg	BDL 3.000000	BDL 3.000000	BDL 3.000000	BDL 26.000000
2-CHLORONAPHTHALENE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
2-CHLOROPHENOL	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
2-METHYL-4,5-DINITROPHENOL	mg/kg	BDL 3.000000	BDL 3.000000	BDL 3.000000	BDL 26.000000
2-METHYLNAPHTHALENE	mg/kg	BDL .040000	BDL .600000	BDL .600000	BDL 5.100000
2-METHYLPHENOL	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
2-NITROANILINE	mg/kg	BDL 3.000000	BDL 3.000000	BDL 3.000000	BDL 26.000000
2-NITROPHENOL	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
3,5-DICHLOROBENZIDINE	mg/kg	BDL 1.200000	BDL 1.200000	BDL 1.200000	BDL 10.000000
3-NITROANILINE	mg/kg	BDL 3.000000	BDL 3.000000	BDL 3.000000	BDL 26.000000
4-BROMOPHENYL ETHER	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
4-CHLORO-3-METHYLPHENOL	mg/kg	BDL 1.200000	BDL 1.200000	BDL 1.200000	BDL 10.000000
4-CHLOROANILINE	mg/kg	BDL 1.200000	BDL 1.200000	BDL 1.200000	BDL 10.000000
4-CHLOROPHENYL PHENYL ETHER	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
4-METHYLPHENOL	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
4-NITROANILINE	mg/kg	BDL 3.000000	BDL 3.000000	BDL 3.000000	BDL 26.000000
4-NITROPHENOL	mg/kg	BDL 3.000000	BDL 3.000000	BDL 3.000000	BDL 26.000000
ACENAPHTHENE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
ACENAPHTHYLENE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
ANILINE	mg/kg	BDL 1.200000	BDL 1.200000	BDL 1.200000	BDL 10.000000
ANTHRACENE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
BENZIDINE	mg/kg	BDL 3.000000	BDL 3.000000	BDL 3.000000	BDL 26.000000
BENZO(a)ANTHRACENE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
BENZO(a)PYRENE	mg/kg	BDL .400000	BDL .600000	BDL .600000	BDL 5.100000
BENZO(b)FLUORANTHENE	mg/kg	BDL .560000	BDL .600000	BDL .600000	BDL 5.100000
BENZO(g,h,i)PERYLENE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
BENZO(k)FLUORANTHENE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
BENZOIC ACID	mg/kg	BDL 3.600000	BDL 3.000000	BDL 3.000000	BDL 26.000000
BENZYL ALCOHOL	mg/kg	BDL 1.200000	BDL 1.200000	BDL 1.200000	BDL 10.000000
BIS(2-CHLOROETHOXY)METHANE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
BIS(2-CHLOROETHYL)ETHER	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
BIS(2-CHLOROISOPROPYL)ETHER	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg	BDL .370000	BDL .590000	BDL .600000	BDL 5.100000
BUTYLBENZYL PHTHALATE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
CHRYSENE	mg/kg	BDL .090000	BDL .600000	BDL .600000	BDL 5.100000
DI-N-OCTYLPHTHALATE	mg/kg	BDL .200000	BDL .600000	BDL .600000	BDL 5.100000
DIBENZO(a,h)ANTHRACENE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
DIBENZOFURAN	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
DIBUTYL PHTHALATE	mg/kg	BDL .240000	BDL .410000	BDL .600000	BDL 5.100000
DIETHYL PHTHALATE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
DIMETHYL PHTHALATE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
FLUORANTHENE	mg/kg	BDL .540000	BDL .600000	BDL .600000	BDL 5.100000
FLUORENE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
HEXACHLOROBENZENE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
HEXACHLOROBUTADIENE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
HEXACHLOROCYCLOPENTADIENE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000

BDL Below Detection Limit  
NA Not Analyzed  
#7 Diluted Out

PARAMETER	UNIT	FTASH1	FTASH2	FTASH3	FTAF1
HEXACHLOROETHANE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
INDENO(1,2,3-c,d)PYRENE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
ISOPHORONE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
N-NITROSO-DI-METHYLAMINE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
N-NITROSO-DI-N-PROPYLAMINE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
N-NITROSO-DI-PHENYLAMINE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
NAPHTHALENE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
NITROBENZENE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
PENTACHLOROPHENOL	mg/kg	BDL 3.000000	BDL 3.000000	BDL 3.000000	BDL 26.000000
PHENANTHRENE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
PHENOL	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
PYRENE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
2,4-DINITROTOLUENE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
2,6-DINITROTOLUENE	mg/kg	BDL .600000	BDL .600000	BDL .600000	BDL 5.100000
ANTIMONY	mg/kg	BDL .499000	BDL .499000	BDL .499000	BDL .500000
ARSENIC	mg/kg	1.900000	.299000	2.800000	10.200000
BERYLLIUM	mg/kg	.699000	BDL .499000	1.300000	1.300000
CADMIUM	mg/kg	.799000	1.230000	.270000	5.940000
CHROMIUM	mg/kg	11.000000	6.690000	14.400000	69.000000
COPPER	mg/kg	6.160000	52.500000	9.480000	32.800000
LEAD	mg/kg	32.200000	15.000000	59.700000	301.000000
MERCURY	mg/kg	BDL .100000	BDL .100000	BDL .100000	BDL .100000
NICKEL	mg/kg	10.700000	7.590000	13.300000	352.000000
SELENIUM	mg/kg	BDL .499000	BDL .499000	BDL .499000	BDL .500000
SILICON	mg/kg	23.200000	34.200000	26.800000	18.300000
SILVER	mg/kg	BDL .100000	BDL .100000	.200000	1.500000
THALLIUM	mg/kg	BDL .100000	BDL .100000	BDL .100000	BDL .100000
ZINC	mg/kg	146.000000	136.000000	140.000000	381.000000
PCE 1016	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
PCB 1221	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
PCB 1232	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
PCB 1242	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
PCB 1248	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
PCB 1254	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
PCE 1260	mg/kg	BDL .003000	BDL .003000	BDL .003000	.380000
ALDRIN	mg/kg	BDL .000300	BDL .000300	BDL .000300	.000900
CHLORDANE	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
DIELDRIN	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
ENDOSULFAN I	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
ENDOSULFAN II	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
ENDOSULFAN SULFATE	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
ENDRIN	mg/kg	BDL .000300	BDL .000300	BDL .000300	.093000
ENDRIN ALDEHYDE	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
HEPTACHLOR	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
HEPTACHLOR EPOXIDE	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
METHOXYCHLOR	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
PPDD	mg/kg	.021000	.001100	BDL .000300	BDL .000300
PPDE	mg/kg	.097000	.000400	.024000	.190000
PPDDT	mg/kg	.130000	.005300	.100000	BDL .000300
TOXAPHENE	mg/kg	BDL .003000	BDL .003000	BDL .003000	BDL .003000
a-BHC	mg/kg	BDL .000300	BDL .000300	BDL .000300	.000500
b-BHC	mg/kg	BDL .000300	BDL .000300	.005400	BDL .000300
d-BHC	mg/kg	BDL .000300	BDL .000300	BDL .000300	BDL .000300
g-BHC	mg/kg	.000400	BDL .000300	BDL .000300	BDL .000300
1,1,1-TRICHLOROETHANE	mg/kg	BDL .025000	BDL .025000	BDL .025000	BDL .025000

BDL Below Detection Limit  
NA Not Analyzed  
#7 Diluted Out

PARAMETER	UNIT	FTASH1	FTASH2	FTASH3	FTAF1
1,1,2,2-TETRACHLOROETHANE	mg/kg	BDL .025000	BDL .025000	BDL .025000	BDL .025000
1,1,2-TRICHLOROETHANE	mg/kg	BDL .025000	BDL .025000	BDL .025000	BDL .025000
1,1-DICHLOROETHANE	mg/kg	BDL .025000	BDL .025000	BDL .025000	BDL .025000
1,1-DICHLOROETHENE	mg/kg	BDL .025000	BDL .025000	BDL .025000	BDL .025000
1,2-DICHLOROETHANE	mg/kg	BDL .025000	BDL .025000	BDL .025000	BDL .025000
1,2-DICHLOROPROPANE	mg/kg	BDL .025000	BDL .025000	BDL .025000	BDL .025000
2-BUTANONE	mg/kg	BDL .500000	BDL .500000	BDL .500000	BDL .500000
2-CHLOROETHYL VINYLETHER	mg/kg	BDL .050000	BDL .050000	BDL .050000	BDL .050000
2-HEXANONE	mg/kg	BDL .250000	BDL .250000	BDL .250000	BDL .250000
4-METHYL-2-PENTANONE	mg/kg	BDL .250000	BDL .250000	BDL .250000	BDL .250000
ACETONE	mg/kg	BDL 1.100000	BDL .500000	BDL .500000	BDL .500000
ACROLEIN	mg/kg	BDL .500000	BDL .500000	BDL .500000	BDL .500000
ACRYLONITRILE	mg/kg	BDL .500000	BDL .500000	BDL .500000	BDL .500000
BENZENE	mg/kg	BDL .025000	BDL .025000	BDL .025000	BDL .025000
BROMODICHLOROMETHANE	mg/kg	BDL .025000	BDL .025000	BDL .025000	BDL .025000
BROMOFORM	mg/kg	BDL .025000	BDL .025000	BDL .025000	BDL .025000
BROMOMETHANE	mg/kg	BDL .050000	BDL .050000	BDL .050000	BDL .050000
CARBON TETRACHLORIDE	mg/kg	BDL .025000	BDL .025000	BDL .025000	BDL .025000
CARBONDISULFIDE	mg/kg	BDL .025000	BDL .025000	BDL .025000	BDL .025000
CHLOROBENZENE	mg/kg	BDL .025000	BDL .025000	BDL .025000	BDL .025000
CHLOROETHANE	mg/kg	BDL .050000	BDL .050000	BDL .050000	BDL .050000
CHLOROFORM	mg/kg	BDL .025000	BDL .025000	BDL .025000	BDL .025000
CHLOROMETHANE	mg/kg	BDL .050000	BDL .050000	BDL .050000	BDL .050000
CIS-1,2-DICHLOROETHENE	mg/kg	BDL .025000	BDL .025000	BDL .025000	BDL .025000
CIS-1,3-DICHLOROPROPENE	mg/kg	BDL .025000	BDL .025000	BDL .025000	BDL .025000
DIBROMOCHLOROMETHANE	mg/kg	BDL .025000	BDL .025000	BDL .025000	BDL .025000
ETHYLBENZENE	mg/kg	BDL .025000	BDL .025000	BDL .025000	BDL .025000
METHYLENE CHLORIDE	mg/kg	BDL .550000	BDL .100000	BDL .025000	BDL .076000
STYRENE	mg/kg	BDL .025000	BDL .025000	BDL .025000	BDL .025000
T-XYLENE	mg/kg	BDL .025000	BDL .025000	BDL .025000	BDL .025000
TETRACHLOROETHENE	mg/kg	BDL .025000	BDL .025000	BDL .025000	BDL .025000
TOLUENE	mg/kg	BDL .025000	BDL .025000	BDL .025000	BDL .025000
TRANS-1,2-DICHLOROETHENE	mg/kg	BDL .025000	BDL .025000	BDL .025000	BDL .025000
TRANS-1,3-DICHLOROPROPENE	mg/kg	BDL .025000	BDL .025000	BDL .025000	BDL .025000
TRICHLOROETHENE	mg/kg	BDL .025000	BDL .025000	BDL .025000	BDL .025000
VINYL ACETATE	mg/kg	BDL .250000	BDL .250000	BDL .250000	BDL .250000
VINYL CHLORIDE	mg/kg	BDL .050000	BDL .050000	BDL .050000	BDL .050000
2,4,6-TRIBROMOPHENOL-S	μ	101.000000	87.600000	89.500000	44.100000
2-FLUOROBIPHENYL-S	μ	57.300000	36.400000	83.100000	53.900000
2-FLUOROPHENOL-S	μ	16.600000	15.700000	18.300000	45.700000
NITROBENZENE-D5-S	μ	26.800000	62.800000	24.500000	60.800000
P-TERPHEYL-D14-S	μ	65.100000	55.600000	59.100000	95.350000
PHENOL-D5-S	μ	38.400000	39.500000	45.700000	44.900000
1,2-DICHLOROETHANE-D4-S	μ	89.900000	113.000000	98.900000	89.600000
4-BROMOFLUOROBENZENE-S	μ	134.000000	114.000000	105.000000	112.000000
TOLUENE-D8-S	μ	81.200000	93.500000	84.200000	117.000000

BDL Below Detection Limit  
NA Not Analyzed  
#7 Diluted Out

PARAMETER	UNIT	FTAF2	METHOD BLANK #1	METHOD BLANK #2
1,2,4-TRICHLOROBENZENE	mg/kg	BDL 5.700000	BDL .600000	NA
1,2-DICHLOROBENZENE	mg/kg	BDL 5.700000	BDL .600000	NA
1,2-DIPHENYLHYDRAZINE	mg/kg	BDL 5.700000	BDL .600000	NA
1,3-DICHLOROBENZENE	mg/kg	BDL 5.700000	BDL .600000	NA
1,4-DICHLOROBENZENE	mg/kg	BDL 5.700000	BDL .600000	NA
2,4,5-TRICHLOROPHENOL	mg/kg	BDL 5.700000	BDL .600000	NA
2,4,6-TRICHLOROPHENOL	mg/kg	BDL 5.700000	BDL .600000	NA
2,4-DICHLOROPHENOL	mg/kg	BDL 5.700000	BDL .500000	NA
2,4-DIMETHYLPHENOL	mg/kg	BDL 5.700000	BDL .600000	NA
2,4-DINITROPHENOL	mg/kg	BDL 28.000000	BDL 3.000000	NA
2-CHLORONAPHTHALENE	mg/kg	BDL 5.700000	BDL .600000	NA
2-CHLOROPHENOL	mg/kg	BDL 5.700000	BDL .600000	NA
2-METHYL-4,6-DINITROPHENOL	mg/kg	BDL 28.000000	BDL 3.000000	NA
2-METHYLNAPHTHALENE	mg/kg	BDL 5.700000	BDL .600000	NA
2-METHYLPHENOL	mg/kg	BDL 5.700000	BDL .600000	NA
2-NITROANILINE	mg/kg	BDL 28.000000	BDL 3.000000	NA
2-NITROPHENOL	mg/kg	BDL 5.700000	BDL .600000	NA
3,3-DICHLOROBENZIDINE	mg/kg	BDL 11.000000	BDL 1.200000	NA
3-NITROANILINE	mg/kg	BDL 28.000000	BDL 3.000000	NA
4-BROMOPHENYL ETHER	mg/kg	BDL 5.700000	BDL .600000	NA
4-CHLORO-3-METHYLPHENOL	mg/kg	BDL 11.000000	BDL 1.200000	NA
4-CHLOROANILINE	mg/kg	BDL 11.000000	BDL 1.200000	NA
4-CHLOROPHENYL PHENYL ETHER	mg/kg	BDL 5.700000	BDL .600000	NA
4-METHYLPHENOL	mg/kg	BDL 5.700000	BDL .600000	NA
4-NITROANILINE	mg/kg	BDL 28.000000	BDL 3.000000	NA
4-NITROPHENOL	mg/kg	BDL 28.000000	BDL 3.000000	NA
ACENAPHTHENE	mg/kg	BDL 5.700000	BDL .600000	NA
ACENAPHTHYLENE	mg/kg	BDL 5.700000	BDL .600000	NA
ANILINE	mg/kg	BDL 11.000000	BDL 1.200000	NA
ANTHRACENE	mg/kg	BDL 5.700000	BDL .600000	NA
BENZIDINE	mg/kg	BDL 28.000000	BDL 3.000000	NA
BENZO(a)ANTHRACENE	mg/kg	BDL 5.700000	BDL .600000	NA
BENZO(a)PYRENE	mg/kg	BDL 5.700000	BDL .600000	NA
BENZO(b)FLUORANTHENE	mg/kg	BDL 5.700000	BDL .600000	NA
BENZO(g,h,i)PERYLENE	mg/kg	BDL 5.700000	BDL .600000	NA
BENZO(k)FLUORANTHENE	mg/kg	BDL 5.700000	BDL .600000	NA
BENZOIC ACID	mg/kg	BDL 28.000000	BDL 3.000000	NA
BENZYL ALCOHOL	mg/kg	BDL 11.000000	BDL 1.200000	NA
BIS(2-CHLOROETHOXY)METHANE	mg/kg	BDL 5.700000	BDL .600000	NA
BIS(2-CHLOROETHYL)ETHER	mg/kg	BDL 5.700000	BDL .600000	NA
BIS(2-CHLOROISOPROPYL)ETHER	mg/kg	BDL 5.700000	BDL .600000	NA
BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg	BDL 5.700000	BDL .600000	NA
BUTYLBENZYL PHTHALATE	mg/kg	BDL 5.700000	BDL .600000	NA
CHRYSENE	mg/kg	BDL 5.700000	BDL .600000	NA
DI-N-OCTYLPHTHALATE	mg/kg	BDL 5.700000	BDL .600000	NA
DIBENZO(a,h)ANTHRACENE	mg/kg	BDL 5.700000	BDL .600000	NA
DIBENZOFURAN	mg/kg	BDL 5.700000	BDL .600000	NA
DIBUTYLPHTHALATE	mg/kg	BDL 5.700000	BDL .600000	NA
DIETHYL PHTHALATE	mg/kg	BDL 5.700000	BDL .600000	NA
DIMETHYL PHTHALATE	mg/kg	BDL 5.700000	BDL .600000	NA
FLUORANTHENE	mg/kg	BDL 5.700000	BDL .600000	NA
FLUORENE	mg/kg	BDL 5.700000	BDL .600000	NA
HEXACHLOROBENZENE	mg/kg	BDL 5.700000	BDL .600000	NA
HEXACHLOROBUTADIENE	mg/kg	BDL 5.700000	BDL .600000	NA
HEXACHLOROCYCLOPENTADIENE	mg/kg	BDL 5.700000	BDL .600000	NA

BDL Below Detection Limit  
NA Not Analyzed  
#? Diluted (wt)

PARAMETER	UNIT	FTAF2	METHOD BLANK #1	METHOD BLANK #2
HEXACHLOROETHANE	mg/kg	BDL .700000	BDL .600000	NA
INDENO(1,2,3-c,d)PYRENE	mg/kg	BDL 5.700000	BDL .600000	NA
ISOPHORONE	mg/kg	BDL 5.700000	BDL .600000	NA
N-NITROSO-DI-METHYLAMINE	mg/kg	BDL 5.700000	BDL .600000	NA
N-NITROSO-DI-N-PROPYLAMINE	mg/kg	BDL 5.700000	BDL .600000	NA
N-NITROSO-DI-PHENYLAMINE	mg/kg	BDL 5.700000	BDL .600000	NA
NAPHTHALENE	mg/kg	BDL 5.700000	BDL .600000	NA
NITROBENZENE	mg/kg	BDL 5.700000	BDL .600000	NA
PENTACHLOROPHENOL	mg/kg	BDL 28.000000	BDL 3.000000	NA
PHENANTHRENE	mg/kg	BDL 5.700000	BDL .600000	NA
PHENOL	mg/kg	BDL 5.700000	BDL .600000	NA
PYRENE	mg/kg	BDL 5.700000	BDL .600000	NA
2,4-DINITROTOLUENE	mg/kg	BDL 5.700000	BDL .600000	NA
2,6-DINITROTOLUENE	mg/kg	BDL 5.700000	BDL .600000	NA
ANTIMONY	mg/kg	BDL .499000	NA	NA
ARSENIC	mg/kg	3.590000	NA	NA
BERYLLIUM	mg/g	.799000	BDL .005000	NA
CADMIUM	mg/kg	7.810000	BDL .000100	NA
CHROMIUM	mg/kg	26.100000	BDL .020000	NA
COPPER	mg/kg	28.600000	BDL .030000	NA
LEAD	mg/kg	244.000000	NA	NA
MERCURY	mg/kg	.804000	NA	NA
NICKEL	mg/kg	21.600000	BDL .030000	NA
SELENIUM	mg/kg	BDL .499000	BDL .005000	NA
SILICON	mg/kg	35.400000	NA	NA
SILVER	mg/kg	25.500000	BDL .001000	NA
THALLIUM	mg/kg	BDL .100000	NA	NA
ZINC	mg/kg	234.000000	BDL .010000	NA
PCB 1016	mg/kg	BDL .003000	BDL .003000	BDL .003000
PCB 1221	mg/kg	BDL .003000	BDL .003000	BDL .003000
PCB 1232	mg/kg	BDL .003000	BDL .003000	BDL .003000
PCB 1242	mg/kg	BDL .003000	BDL .003000	BDL .003000
PCB 1248	mg/kg	BDL .003000	BDL .003000	BDL .003000
PCB 1254	mg/kg	BDL .003000	BDL .003000	BDL .003000
PCB 1260	mg/kg	.076000	BDL .003000	BDL .003000
ALDRIN	mg/kg	BDL .000300	BDL .000300	BDL .000300
CHLORDANE	mg/kg	BDL .000300	BDL .000300	BDL .000300
DIELDRIN	mg/kg	BDL .000300	BDL .000300	BDL .000300
ENDOSULFAN I	mg/kg	BDL .000300	BDL .000300	BDL .000300
ENDOSULFAN II	mg/kg	BDL .000300	BDL .000300	BDL .000300
ENDOSULFAN SULFATE	mg/kg	BDL .000300	BDL .000300	BDL .000300
ENDRIN	mg/kg	BDL .000300	BDL .000300	BDL .000300
ENDRIN ALDEHYDE	mg/kg	BDL .000300	.001800	BDL .000300
HEPTACHLOR	mg/kg	.001400	.001800	BDL .000300
HEPTACHLOR EPOXIDE	mg/kg	BDL .000300	BDL .000300	BDL .000300
METHOXYCHLOR	mg/kg	BDL .000300	BDL .000300	BDL .000300
PPDD	mg/kg	BDL .000300	BDL .000300	BDL .000300
PPDE	mg/kg	.119000	BDL .000300	BDL .000300
PPDDT	mg/kg	.073000	.001300	BDL .000300
TOXAPHENE	mg/kg	BDL .000300	BDL .000300	BDL .000300
a-BHC	mg/kg	BDL .000300	BDL .000300	BDL .000300
b-BHC	mg/kg	BDL .000300	BDL .000300	BDL .000300
d-BHC	mg/kg	BDL .000300	BDL .000300	BDL .000300
α-BHC	mg/kg	BDL .000300	.000400	BDL .000300
1,1,1-TRICHLOROETHANE	mg/kg	BDL .025000	--	--

BDL Below Detection Limit  
NA Not Analyzed  
#7 Diluted Out

PARAMETER	UNIT	FTAF2	METHOD BLANK #1	METHOD BLANK #2
1,1,2,2-TETRACHLOROETHANE	mg/kg	BDL .025000	--	--
1,1,2-TRICHLOROETHANE	mg/kg	BDL .025000	--	--
1,1-DICHLOROETHANE	mg/kg	BDL .025000	--	--
1,1-DICHLOROETHENE	mg/kg	BDL .025000	--	--
1,2-DICHLOROETHANE	mg/kg	BDL .025000	--	--
1,2-DICHLOROPROPANE	mg/kg	BDL .025000	--	--
2-BUTANONE	mg/kg	BDL .500000	--	--
2-CHLOROETHYL VINYLETHER	mg/kg	BDL .050000	--	--
2-HEXANONE	mg/kg	BDL .250000	--	--
4-METHYL-2-PENTANONE	mg/kg	BDL .250000	--	--
ACETONE	mg/kg	BDL .500000	--	--
ACROLEIN	mg/kg	BDL .500000	--	--
ACRYLONITRILE	mg/kg	BDL .500000	--	--
BENZENE	mg/kg	BDL .025000	--	--
BROMODICHLOROMETHANE	mg/kg	BDL .025000	--	--
BROMOFORM	mg/kg	BDL .025000	--	--
BROMOMETHANE	mg/kg	BDL .050000	--	--
CARBON TETRACHLORIDE	mg/kg	BDL .025000	--	--
CARBONDISULFIDE	mg/kg	BDL .025000	--	--
CHLOROBENZENE	mg/kg	BDL .025000	--	--
CHLOROETHANE	mg/kg	BDL .050000	--	--
CHLOROFORM	mg/kg	BDL .025000	--	--
CHLOROMETHANE	mg/kg	BDL .050000	--	--
CIS-1,2-DICHLOROETHENE	mg/kg	BDL .025000	--	--
CIS-1,3-DICHLOROPROPENE	mg/kg	BDL .025000	--	--
DIBROMOCHLOROMETHANE	mg/kg	BDL .025000	--	--
ETHYLBENZENE	mg/kg	BDL .025000	--	--
METHYLENE CHLORIDE	mg/kg	.059000	--	--
STYRENE	mg/kg	BDL .025000	--	--
T-XYLENE	mg/kg	BDL .025000	--	--
TETRACHLOROETHENE	mg/kg	BDL .025000	--	--
TOLUENE	mg/kg	BDL .025000	--	--
TRANS-1,2-DICHLOROETHENE	mg/kg	BDL .025000	--	--
TRANS-1,3-DICHLOROPROPENE	mg/kg	BDL .025000	--	--
TRICHLOROETHENE	mg/kg	BDL .025000	--	--
VINYL ACETATE	mg/kg	BDL .250000	--	--
VINYL CHLORIDE	mg/kg	BDL .050000	--	--
2,4,6-TRIBROMOPHENOL-S	I	#7 .000000	93.600000	
2-FLUOROBIPHENYL-S	I	83.700000	72.500000	
2-FLUOROPHENOL-S	I	66.500000	20.800000	
NITROBENZENE-D5-S	I	73.700000	55.000000	
P-TERPHENYL-D14-S	I	90.500000	51.700000	
PHENOL-D5-S	I	68.500000	42.500000	
1,2-DICHLOROETHANE-D4-S	I	106.000000	--	--
4-BROMOFLUOROBENZENE-S	I	113.000000	--	--
TOLUENE-D8-S	I	84.400000	--	--

BDL Below Detection Limit  
NA Not Analyzed  
#7 Diluted Out

APPENDIX L

UNDERGROUND STORAGE TANK CHEMICAL DATA  
LIQUID SAMPLE CHEMICAL DATA  
OCTOBER 1989

PARAMETERS	UNIT	FTAUST	FTAUST/OILY	FTAUST/WATER	METHOD BLANK
1,2,4-TRICHLOROBENZENE	mg/L	--	BDL 1000.000000	BDL 2.000000	--
1,2-DICHLOROBENZENE	mg/L	--	BDL 1000.000000	BDL 2.000000	--
1,2-DIPHENYLHYDRAZINE	mg/L	--	BDL 1000.000000	BDL 2.000000	--
1,3-DICHLOROBENZENE	mg/L	--	BDL 1000.000000	BDL 2.000000	--
1,4-DICHLOROBENZENE	mg/L	--	BDL 1000.000000	BDL 2.000000	--
2,4,5-TRICHLOROPHENOL	mg/L	--	BDL 1000.000000	BDL 2.000000	--
2,4,6-TRICHLOROPHENOL	mg/L	--	BDL 1000.000000	BDL 2.000000	--
2,4-DICHLOROPHENOL	mg/L	--	BDL 1000.000000	BDL 2.000000	--
2,4-DIMETHYLPHENOL	mg/L	--	BDL 1000.000000	BDL 2.000000	--
2,4-DINITROPHENOL	mg/L	--	BDL 5000.000000	BDL 10.000000	--
2-CHLORONAPHTHALENE	mg/L	--	BDL 1000.000000	BDL 2.000000	--
2-CHLOROPHENOL	mg/L	--	BDL 1000.000000	BDL 2.000000	--
2-METHYL-4,6-DINITROPHENOL	mg/L	--	BDL 5000.000000	BDL 10.000000	--
2-METHYLNAPHTHALENE	mg/L	--	3470.000000	6.300000	--
2-METHYLPHENOL	mg/L	--	BDL 1000.000000	2.300000	--
2-NITROANILINE	mg/L	--	BDL 5000.000000	BDL 10.000000	--
2-NITROPHENOL	mg/L	--	BDL 1000.000000	BDL 2.000000	--
3,3-DICHLOROBENZIDINE	mg/L	--	BDL 2000.000000	BDL 4.000000	--
3-NITROANILINE	mg/L	--	BDL 5000.000000	BDL 10.000000	--
4-BROMOPHENYL ETHER	mg/L	--	BDL 1000.000000	BDL 2.000000	--
4-CHLORO-3-METHYLPHENOL	mg/L	--	BDL 2000.000000	BDL 4.000000	--
4-CHLOROANILINE	mg/L	--	BDL 2000.000000	BDL 4.000000	--
4-CHLOROPHENYL PHENYL ETHER	mg/L	--	BDL 1000.000000	BDL 2.000000	--
4-NITROANILINE	mg/L	--	BDL 5000.000000	BDL 10.000000	--
4-NITROPHENOL	mg/L	--	BDL 5000.000000	BDL 10.000000	--
ACENAPHTHENE	mg/L	--	BDL 1000.000000	BDL 2.000000	--
ACENAPHTHYLENE	mg/L	--	BDL 1000.000000	BDL 2.000000	--
ANILINE	mg/L	--	BDL 2000.000000	BDL 4.000000	--
ANTHRACENE	mg/L	--	BDL 1000.000000	BDL 2.000000	--
BENZIDINE	mg/L	--	BDL 5000.000000	BDL 10.000000	--
BENZO(a)ANTHRACENE	mg/L	--	BDL 1000.000000	BDL 2.000000	--
BENZO(a)PYRENE	mg/L	--	BDL 1000.000000	BDL 2.000000	--
BENZO(b)FLUORANTHENE	mg/L	--	BDL 1000.000000	BDL 2.000000	--
BENZO(k)FLUORANTHENE	mg/L	--	BDL 1000.000000	BDL 2.000000	--
BENZO(g,h,i)PERYLENE	mg/L	--	BDL 1000.000000	BDL 2.000000	--
BENZO(k)FLUORANTHENE	mg/L	--	BDL 1000.000000	BDL 2.000000	--
BENZOIC ACID	mg/L	--	BDL 5000.000000	BDL 10.000000	--
BENZYL ALCOHOL	mg/L	--	BDL 2000.000000	BDL 4.000000	--
BIS(2-CHLOROETHOXY)METHANE	mg/L	--	BDL 1000.000000	BDL 2.000000	--
BIS(2-CHLOROETHYL)ETHER	mg/L	--	BDL 1000.000000	BDL 2.000000	--
BIS(2-CHLOROISOPROPYL)ETHER	mg/L	--	BDL 1000.000000	BDL 2.000000	--
BIS(2-ETHYLHEXYL)PHTHALATE	mg/L	--	BDL 1000.000000	BDL 2.000000	--
BUTYLBENZYLPHTHALATE	mg/L	--	BDL 1000.000000	BDL 2.000000	--
CHRYSENE	mg/L	--	BDL 1000.000000	BDL 2.000000	--
DI-N-OCTYLPHTHALATE	mg/L	--	BDL 1000.000000	BDL 2.000000	--
DIBENZO(a,h)ANTHRACENE	mg/L	--	BDL 1000.000000	BDL 2.000000	--
DIBENZOFURAN	mg/L	--	BDL 1000.000000	BDL 2.000000	--
DIBUTYLPHTHALATE	mg/L	--	BDL 1000.000000	BDL 2.000000	--
DIETHYL PHTHALATE	mg/L	--	214.000000	BDL 2.000000	--
DIMETHYL PHTHALATE	mg/L	--	BDL 1000.000000	3.700000	--
FLUORANTHENE	mg/L	--	BDL 1000.000000	BDL 2.000000	--
FLUORENE	mg/L	--	175.000000	BDL 2.000000	--
HEXACHLOROBENZENE	mg/L	--	BDL 1000.000000	BDL 2.000000	--
HEXACHLOROBUTADIENE	mg/L	--	BDL 1000.000000	BDL 2.000000	--

BDL Below Detection Limits  
 -- Not analyzed for  
 #? Diluted out





PARAMETERS	UNIT	PTAUST	FTAUST/OILY	FTAUST/WATER	METHOD BLANK
PPDDE	mg/L	--	BDL .010000	BDL .000010	--
PPDET	mg/L	--	BDL .010000	BDL .000010	--
TOXAPHENE	mg/L	--	BDL .200000	BDL .000200	--
a-BHC	mg/L	--	BDL .010000	BDL .000010	--
b-BHC	mg/L	--	BDL .010000	BDL .000010	--
o-BHC	mg/L	--	BDL .010000	BDL .000010	--
g-BHC	mg/L	--	BDL .010000	BDL .000010	--
1,1,1-TRICHLOROETHANE	mg/L	BDL 500.000000	--	--	BDL .005000
1,1,2,2-TETRACHLOROETHANE	mg/L	BDL 500.000000	--	--	BDL .005000
1,1,2-TRICHLOROETHANE	mg/L	BDL 500.000000	--	--	BDL .005000
1,1-DICHLOROETHANE	mg/L	BDL 500.000000	--	--	BDL .005000
1,1-DICHLOROETHENE	mg/L	BDL 500.000000	--	--	BDL .005000
1,2-DICHLOROETHANE	mg/L	BDL 500.000000	--	--	BDL .005000
1,2-DICHLOROPROPANE	mg/L	BDL 500.000000	--	--	BDL .005000
2-BUTANONE	mg/L	BDL 10000.000000	--	--	BDL .100000
2-CHLOROETHYL VINYLETHER	mg/L	BDL 1000.000000	--	--	BDL .010000
2-HEXANONE	mg/L	BDL 5000.000000	--	--	BDL .050000
4-METHYL-2-PENTANONE	mg/L	BDL 5000.000000	--	--	BDL .050000
ACETONE	mg/L	BDL 10000.000000	--	--	BDL .100000
ACROLEIN	mg/L	BDL 10000.000000	--	--	BDL .100000
ACRYLONITRILE	mg/L	BDL 10000.000000	--	--	BDL .100000
BENZENE	mg/L	BDL 500.000000	--	--	BDL .005000
BROMODICHLOROMETHANE	mg/L	BDL 500.000000	--	--	BDL .005000
BROMOFORM	mg/L	BDL 500.000000	--	--	BDL .005000
BROMOMETHANE	mg/L	BDL 1000.000000	--	--	BDL .010000
CARBON TETRACHLORIDE	mg/L	BDL 500.000000	--	--	BDL .005000
CARBONDISULFIDE	mg/L	BDL 500.000000	--	--	BDL .005000
CHLOROBENZENE	mg/L	BDL 500.000000	--	--	BDL .005000
CHLOROETHANE	mg/L	BDL 1000.000000	--	--	BDL .010000
CHLOROFORM	mg/L	BDL 500.000000	--	--	BDL .005000
CHLOROMETHANE	mg/L	BDL 1000.000000	--	--	BDL .010000
CIS-1,2-DICHLOROETHENE	mg/L	BDL 500.000000	--	--	BDL .005000
CIS-1,3-DICHLOROPROPENE	mg/L	BDL 500.000000	--	--	BDL .005000
DIBROMOCHLOROMETHANE	mg/L	BDL 500.000000	--	--	BDL .005000
ETHYLENE	mg/L	BDL 1000.000000	--	--	BDL .010000
METHYLENE CHLORIDE	mg/L	BDL 500.000000	--	--	BDL .005000
STYRENE	mg/L	BDL 500.000000	--	--	BDL .005000
T XYLENE	mg/L	BDL 500.000000	--	--	BDL .005000
TFETRACHLOROETHENE	mg/L	BDL 500.000000	--	--	BDL .005000
TOLENE	mg/L	BDL 4700.000000	--	--	BDL .005000
TRANS-1,2-DICHLOROETHENE	mg/L	BDL 500.000000	--	--	BDL .005000
TRANS-1,3-DICHLOROPROPENE	mg/L	BDL 500.000000	--	--	BDL .005000
TRICHLOROETHENE	mg/L	BDL 500.000000	--	--	BDL .005000
VINYL ACETATE	mg/L	BDL 5000.000000	--	--	BDL .050000
VINYL CHLORIDE	mg/L	BDL 1000.000000	--	--	BDL .010000
2,4,6-TRIBROMOPHENOL-S	1	--	07	07	--
2-FLUOROBIPHENYL-S	1	--	07	07	--
2-FLUOROPHENOL-S	1	--	07	07	--
NITROBENZENE D3-S	1	--	07	07	--
P-TEREPHENYL DIA-S	1	--	07	07	--
PHENOL D3-S	1	--	07	07	--
1,2-DICHLOROETHANE D4-S	1	94.000000	--	--	NA
4-BROMOFLUOROBENZENE-S	1	90.000000	--	--	NA
VOLUME D8-S	1	70.000000	--	--	NA

BDL Below Detection Limit  
 -- Not analyzed for  
 07 Diluted out

APPENDIX M

GROUND-WATER CHEMICAL DATA FOR SAMPLE ROUND 1  
FEBRUARY 1990

WELL #	DATE	READING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M01	19900214	PHYSICAL	pH	ph		5.26	0
FTA-M01	19900214	PHYSICAL	CONDUCTIVITY	umhos		85	0
FTA-M01	19900214	PHYSICAL	TEMPERATURE	deg C		13.2	0
FTA-M01	19900214	METALS	ANTIMONY	ug/L	<	30	30
FTA-M01	19900214	METALS	ARSENIC	ug/L	<	1	1
FTA-M01	19900214	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M01	19900214	METALS	CADMIUM	ug/L	<	5	5
FTA-M01	19900214	METALS	CHROMIUM	ug/L	<	10	10
FTA-M01	19900214	METALS	COPPER	ug/L	<	10	10
FTA-M01	19900214	METALS	LEAD	ug/L	<	30	30
FTA-M01	19900214	METALS	MERCURY	ug/L	<	.2	.2
FTA-M01	19900214	METALS	NICKEL	ug/L	<	15	15
FTA-M01	19900214	METALS	SELENIUM	ug/L	<	2	2
FTA-M01	19900214	METALS	SILVER	ug/L	<	10	10
FTA-M01	19900214	METALS	THALLIUM	ug/L	<	10	10
FTA-M01	19900214	METALS	ZINC	ug/L		19.2	5
FTA-M01	19900214	HERBICIDES ANAL	2,4-D	ug/L	<	50	50
FTA-M01	19900214	HERBICIDES ANAL	2,4,5-T	ug/L	<	50	50
FTA-M01	19900214	HERBICIDES ANAL	2,4,5-TP (SILVEX)	ug/L	<	50	50
FTA-M01	19900214	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M01	19900214	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M01	19900214	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M01	19900214	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M01	19900214	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M01	19900214	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M01	19900214	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M01	19900214	PURGEABLE COMPO	CHLOROISOBROMOMETHANE	ug/L	<	5	5
FTA-M01	19900214	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M01	19900214	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M01	19900214	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M01	19900214	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M01	19900214	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
FTA-M01	19900214	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M01	19900214	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M01	19900214	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M01	19900214	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M01	19900214	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M01	19900214	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
FTA-M01	19900214	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M01	19900214	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M01	19900214	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M01	19900214	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M01	19900214	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M01	19900214	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M01	19900214	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M01	19900214	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
FTA-M01	19900214	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M01	19900214	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
FTA-M01	19900214	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M01	19900214	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
FTA-M01	19900214	PURGEABLE COMPO	TRICHLOROFUOROMETHANE	ug/L	<	10	10
FTA-M01	19900214	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	ACENAPHTHENE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	ACENAPHTHYLENE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	ANTHRACENE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	BENZIDINE	ug/L	<	50	50
FTA-M01	19900214	BASE/NEUTRAL EX	BENZO(a)ANTHRACENE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	BENZO(b)FLUORANTHENE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	BENZO(k)FLUORANTHENE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	BENZO(a)PYRENE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	BENZO(g,h,i)PERYLENE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	BUTYLBENZYLPHthalATE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	4-BROMOPHENYL PHENYL ETHER	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROETHYL)ETHER	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROETHOXY)METHANE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	BIS(2-ETHYLHEXYL)PHthalATE	ug/L	<	47	10
FTA-M01	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROISOPROPYL)ETHER	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	2-CHLORONAPHTHALENE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	4-CHLOROPHENYL PHENYL ETHER	ug/L	<	10	10

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M01	19900214	BASE/NEUTRAL EX	CHRYSENE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	DIBENZO(a,h)ANTHRACENE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	DI-N-BUTYLPHTHALATE	ug/L	<	10	10
FTA-M01	19900214	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	10	10
FTA-M01	19900214	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	10	10
FTA-M01	19900214	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	3,3-DICHLOROBENZIDINE	ug/L	<	20	20
FTA-M01	19900214	BASE/NEUTRAL EX	DIETHYL PHTHALATE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	DIMETHYL PHTHALATE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	2,4-DINITROTOLUENE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	2,6-DINITROTOLUENE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	DI-N-OCTYLPHTHALATE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	DIOXIN(2,3,7,8-TCDD)	ug/L	NEG	0	0
FTA-K01	19900214	BASE/NEUTRAL EX	FLUORANTHENE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	FLUORENE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	HEXACHLOROBENZENE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	HEXACHLOROBUTADIENE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	HEXACHLOROCYCLOPENTADIENE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	HEXACHLOROETHANE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	INDENO(1,2,3-c,d)PYRENE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	ISOPHORENE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	NAPHTHALENE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	NITROBENZENE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-METHYLAMINE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-PHENYLAMINE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-N-PROPYLAMINE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	PHENANTHRENE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	PYRENE	ug/L	<	10	10
FTA-M01	19900214	BASE/NEUTRAL EX	1,2,4-TRICHLOROBENZENE	ug/L	<	10	10
FTA-M01	19900214	ACID EXTRACT	4-CHLORO-3-METHYLPHENOL	ug/L	<	10	10
FTA-M01	19900214	ACID EXTRACT	2,4-DICHLOROPHENOL	ug/L	<	10	10
FTA-M01	19900214	ACID EXTRACT	2,4-DIMETHYLPHENOL	ug/L	<	10	10
FTA-M01	19900214	ACID EXTRACT	2,4-DINITROPHENOL	ug/L	<	50	50
FTA-M01	19900214	ACID EXTRACT	2-METHYL-4,6-DINITROPHENOL	ug/L	<	50	50
FTA-M01	19900214	ACID EXTRACT	2-NITROPHENOL	ug/L	<	10	10
FTA-M01	19900214	ACID EXTRACT	4-NITROPHENOL	ug/L	<	50	50
FTA-M01	19900214	ACID EXTRACT	PENTACHLOROPHENOL	ug/L	<	50	50
FTA-M01	19900214	ACID EXTRACT	PHENOL	ug/L	<	10	10
FTA-M01	19900214	ACID EXTRACT	2,4,5-TRICHLOROPHENOL	ug/L	<	10	10
FTA-M01	19900214	PESTICIDES	ALDRIN	ug/L	<	.04	.04
FTA-M01	19900214	PESTICIDES	a-BHC	ug/L	<	.03	.03
FTA-M01	19900214	PESTICIDES	b-BHC	ug/L	<	.06	.06
FTA-M01	19900214	PESTICIDES	g-BHC	ug/L	<	.09	.09
FTA-M01	19900214	PESTICIDES	d-BHC	ug/L	<	.04	.04
FTA-M01	19900214	PESTICIDES	CHLORDANE	ug/L	<	.14	.14
FTA-M01	19900214	PESTICIDES	4,4'-DDD	ug/L	<	.11	.11
FTA-M01	19900214	PESTICIDES	4,4'-DDE	ug/L	<	.04	.04
FTA-M01	19900214	PESTICIDES	4,4'-DDT	ug/L	<	.12	.12
FTA-M01	19900214	PESTICIDES	DIELDRIN	ug/L	<	.02	.02
FTA-M01	19900214	PESTICIDES	ENDOSULFAM I	ug/L	<	.14	.14
FTA-M01	19900214	PESTICIDES	ENDOSULFAM II	ug/L	<	.04	.04
FTA-M01	19900214	PESTICIDES	ENDOSULFAM SULFATE	ug/L	<	.66	.66
FTA-M01	19900214	PESTICIDES	ENDRIN	ug/L	<	.06	.06
FTA-M01	19900214	PESTICIDES	ENDRIN ALDEHYDE	ug/L	<	.23	.23
FTA-M01	19900214	PESTICIDES	HEPTACHLOR	ug/L	<	.03	.03
FTA-M01	19900214	PESTICIDES	HEPTACHLOR EPOXIDE	ug/L	<	.83	.83
FTA-M01	19900214	PESTICIDES	METHOXYCHLOR	ug/L	<	1.8	1.8
FTA-M01	19900214	PCB	PCB-1016	ug/L	<	.1	.1
FTA-M01	19900214	PCB	PCB-1221	ug/L	<	.1	.1
FTA-M01	19900214	PCB	PCB-1232	ug/L	<	.1	.1
FTA-M01	19900214	PCB	PCB-1242	ug/L	<	.1	.1
FTA-M01	19900214	PCB	PCB-1248	ug/L	<	.1	.1
FTA-M01	19900214	PCB	PCB-1254	ug/L	<	.1	.1
FTA-M01	19900214	PCB	PCB-1260	ug/L	<	.1	.1
FTA-M01	19900214	PESTICIDES	TOXAPHENE	ug/L	<	2.4	2.4
FTA-M01	19900214	TENTATIVELY COM	DI-TERT-BUTYL PHENOL	ug/L		15	-999
FTA-M01	19900214	TENTATIVELY COM	UNIDENTIFIED ALKENE	ug/L		58	-999
FTA-M01	19900214	SURR COMP	1,2-DICHLOROETHANE-04-S	% ug/L		45.5	50
FTA-M01	19900214	SURR COMP	TOLUENE-08-S	% ug/L		47.1	50

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M01	19900214	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		48.8	50
FTA-M01	19900214	SURR COMP	NITROBENZENE-D5-S	% ug/L		22.8	50
FTA-M01	19900214	SURR COMP	2-FLUOROBIPHENYL-S	% ug/L		23.8	50
FTA-M01	19900214	SURR COMP	TERPHEYL-D14	% ug/L		26.4	50
FTA-M01	19900214	SURR COMP	PHENOL-D6-S	% ug/L		30.5	100
FTA-M01	19900214	SURR COMP	2-FLUOROPHENYL-S	% ug/L		49.2	100.1
FTA-M01	19900214	SURR COMP	2,4,6-TRIBROMOPHENOL-D4-S	% ug/L		64	100
FTA-M02	19900214	BASE/NEUTRAL EX	1,2-DIPHENYLHYDRAZINE	ug/L	<	10	10
FTA-M02	19900214	TENTATIVELY COM	UNID AROMATIC HYDROCARBON	ug/L		19	-999
FTA-M02	19900214	TENTATIVELY COM	UNIDENTIFIED CYCLIC ETHER	ug/L		10	0
FTA-M02	19900214	PHYSICAL	pH	ph		4.61	0
FTA-M02	19900214	PHYSICAL	CONDUCTIVITY	umhos		48	0
FTA-M02	19900214	PHYSICAL	TEMPERATURE	deg C		13	0
FTA-M02	19900214	METALS	ANTIMONY	ug/L	<	30	30
FTA-M02	19900214	METALS	ARSENIC	ug/L	<	1	1
FTA-M02	19900214	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M02	19900214	METALS	CADMIUM	ug/L	<	5	5
FTA-M02	19900214	METALS	CHROMIUM	ug/L	<	10	10
FTA-M02	19900214	METALS	COPPER	ug/L	<	10	10
FTA-M02	19900214	METALS	LEAD	ug/L	<	30	30
FTA-M02	19900214	METALS	MERCURY	ug/L	<	.2	.2
FTA-M02	19900214	METALS	NICKEL	ug/L	<	15	15
FTA-M02	19900214	METALS	SELENIUM	ug/L	<	2	2
FTA-M02	19900214	METALS	SILVER	ug/L	<	10	10
FTA-M02	19900214	METALS	THALLIUM	ug/L	<	10	10
FTA-M02	19900214	METALS	ZINC	ug/L		23.5	5
FTA-M02	19900214	HERBICIDES ANAL	2,4-D	ug/L	<	50	50
FTA-M02	19900214	HERBICIDES ANAL	2,4,5-T	ug/L	<	50	50
FTA-M02	19900214	HERBICIDES ANAL	2,4,5-TP (SILVEX)	ug/L	<	50	50
FTA-M02	19900214	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M02	19900214	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M02	19900214	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M02	19900214	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M02	19900214	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M02	19900214	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M02	19900214	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M02	19900214	PURGEABLE COMPO	CHLOROISOPROMETHANE	ug/L	<	5	5
FTA-M02	19900214	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M02	19900214	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M02	19900214	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M02	19900214	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M02	19900214	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
FTA-M02	19900214	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M02	19900214	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M02	19900214	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M02	19900214	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M02	19900214	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M02	19900214	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
FTA-M02	19900214	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M02	19900214	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M02	19900214	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M02	19900214	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M02	19900214	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M02	19900214	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M02	19900214	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M02	19900214	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
FTA-M02	19900214	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M02	19900214	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
FTA-M02	19900214	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M02	19900214	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
FTA-M02	19900214	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M02	19900214	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	ACENAPHTHENE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	ACENAPHTHYLENE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	ANTHRACENE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	BENZIDINE	ug/L	<	50	50
FTA-M02	19900214	BASE/NEUTRAL EX	BENZO(a)ANTHRACENE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	BENZO(b)FLUORANTHENE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	BENZO(k)FLUORANTHENE	ug/L	<	10	10

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M02	19900214	BASE/NEUTRAL EX	BENZO(a)PYRENE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	BENZO(g,h,i)PERYLENE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	BUTYLBENZYLPHthalate	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	4-BROMOPHENYL PHENYL ETHER	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROETHYL)ETHER	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROETHOXY)METHANE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	BIS(2-ETHYLHEXYL)PHthalate	ug/L	<	34	10
FTA-M02	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROISOPROPYL)ETHER	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	2-CHLORONAPHTHALENE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	4-CHLOROPHENYL PHENYL ETHER	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	CHRYSENE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	DIBENZO(a,h)ANTHRACENE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	DI-N-BUTYLPHthalate	ug/L	<	10	10
FTA-M02	19900214	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	10	10
FTA-M02	19900214	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	10	10
FTA-M02	19900214	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	3,3-DICHLOROBENZIDINE	ug/L	<	20	10
FTA-M02	19900214	BASE/NEUTRAL EX	DIETHYL PHthalate	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	DIMETHYL PHthalate	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	2,4-DINITROTOLUENE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	2,6-DINITROTOLUENE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	DI-N-OCTYLPHthalate	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	DIOXIN(2,3,7,8-TCDD)	ug/L	NEG	0	0
FTA-M02	19900214	BASE/NEUTRAL EX	FLUORANTHENE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	FLUORENE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	HEXACHLOROBENZENE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	HEXACHLOROBUTADIENE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	HEXACHLOROCYCLOPENTADIENE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	HEXACHLOROETHANE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	INDENO(1,2,3-c,d)PYRENE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	ISOPHORONE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	NAPHTHALENE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	NITROBENZENE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-METHYLAMINE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-PHENYLAMINE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-N-PROPYLAMINE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	PHENANTHRENE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	PYRENE	ug/L	<	10	10
FTA-M02	19900214	BASE/NEUTRAL EX	1,2,4-TRICHLOROBENZENE	ug/L	<	10	10
FTA-M02	19900214	ACID EXTRACT	4-CHLORO-3-METHYLPHENOL	ug/L	<	10	10
FTA-M02	19900214	ACID EXTRACT	2,4-DICHLOROPHENOL	ug/L	<	10	10
FTA-M02	19900214	ACID EXTRACT	2,4-DIMETHYLPHENOL	ug/L	<	10	10
FTA-M02	19900214	ACID EXTRACT	2,4-DINITROPHENOL	ug/L	<	50	50
FTA-M02	19900214	ACID EXTRACT	2-METHYL-4,6-DINITROPHENOL	ug/L	<	50	50
FTA-M02	19900214	ACID EXTRACT	2-NITROPHENOL	ug/L	<	10	10
FTA-M02	19900214	ACID EXTRACT	4-NITROPHENOL	ug/L	<	50	50
FTA-M02	19900214	ACID EXTRACT	PENTACHLOROPHENOL	ug/L	<	50	50
FTA-M02	19900214	ACID EXTRACT	PHENOL	ug/L	<	10	10
FTA-M02	19900214	ACID EXTRACT	2,4,5-TRICHLOROPHENOL	ug/L	<	10	10
FTA-M02	19900214	PESTICIDES	ALDRIN	ug/L	<	.04	.04
FTA-M02	19900214	PESTICIDES	a-BHC	ug/L	<	.03	.03
FTA-M02	19900214	PESTICIDES	b-BHC	ug/L	<	.06	.06
FTA-M02	19900214	PESTICIDES	g-BHC	ug/L	<	.09	.09
FTA-M02	19900214	PESTICIDES	d-BHC	ug/L	<	.04	.04
FTA-M02	19900214	PESTICIDES	CHLORDANE	ug/L	<	.14	.14
FTA-M02	19900214	PESTICIDES	4,4'-DDE	ug/L	<	.11	.11
FTA-M02	19900214	PESTICIDES	4,4'-DDE	ug/L	<	.04	.04
FTA-M02	19900214	PESTICIDES	4,4'-DOT	ug/L	<	.12	.12
FTA-M02	19900214	PESTICIDES	DIELDRIN	ug/L	<	.02	.02
FTA-M02	19900214	PESTICIDES	ENDOSULFAM I	ug/L	<	.14	.14
FTA-M02	19900214	PESTICIDES	ENDOSULFAM II	ug/L	<	.04	.04
FTA-M02	19900214	PESTICIDES	ENDOSULFAM SULFATE	ug/L	<	.66	.66
FTA-M02	19900214	PESTICIDES	ENDRIN	ug/L	<	.06	.06
FTA-M02	19900214	PESTICIDES	ENDRIN ALDEHYDE	ug/L	<	.23	.23
FTA-M02	19900214	PESTICIDES	HEPTACHLOR	ug/L	<	.03	.03
FTA-M02	19900214	PESTICIDES	HEPTACHLOR EPOXIDE	ug/L	<	.83	.83
FTA-M02	19900214	PESTICIDES	METHOXYCHLOR	ug/L	<	1.8	1.8
FTA-M02	19900214	PCB	PCB-1016	ug/L	<	.1	.1
FTA-M02	19900214	PCB	PCB-1221	ug/L	<	.1	.1

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M02	19900214	PCB	PCB-1232	ug/L	<	.1	.1
FTA-M02	19900214	PCB	PCB-1242	ug/L	<	.1	.1
FTA-M02	19900214	PCB	PCB-1248	ug/L	<	.1	.1
FTA-M02	19900214	PCB	PCB-1254	ug/L	<	.1	.1
FTA-M02	19900214	PCB	PCB-1260	ug/L	<	.1	.1
FTA-M02	19900214	PESTICIDES	TOXAPHENE	ug/L	<	2.4	2.4
FTA-M02	19900214	TENTATIVELY COM	DI-TERT-BUTYL PHENOL	ug/L		15	-999
FTA-M02	19900214	TENTATIVELY COM	UNIDENTIFIED ALKENE	ug/L		58	-999
FTA-M02	19900214	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		44.9	50
FTA-M02	19900214	SURR COMP	TOLUENE-D8-S	% ug/L		47.7	50
FTA-M02	19900214	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		46	50
FTA-M02	19900214	SURR COMP	NITROBENZENE-D5-S	% ug/L		17.5	50
FTA-M02	19900214	SURR COMP	2-FLUOROBIPHENYL-S	% ug/L		27	50
FTA-M02	19900214	SURR COMP	TERPHEHYL-D14	% ug/L		31.4	50
FTA-M02	19900214	SURR COMP	PHENOL-D6-S	% ug/L		20.3	100
FTA-M02	19900214	SURR COMP	2-FLUOROPHENOL-S	% ug/L		41.2	100.1
FTA-M02	19900214	SURR COMP	2,4,6-TRIBROMOPHENOL-D4-S	% ug/L		66	100
FTA-M02	19900214	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M02	19900214	BASE/NEUTRAL EX	1,2-DIPHENYLHYDRAZINE	ug/L	<	10	10
FTA-M04	19900214	PHYSICAL	pH	ph		5.94	0
FTA-M04	19900214	PHYSICAL	CONDUCTIVITY	umhos		65	0
FTA-M04	19900214	PHYSICAL	TEMPERATURE	deg C		12	0
FTA-M04	19900214	METALS	ANTIMONY	ug/L	<	30	30
FTA-M04	19900214	METALS	ARSENIC	ug/L	<	1	1
FTA-M04	19900214	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M04	19900214	METALS	CADMIUM	ug/L	<	5	5
FTA-M04	19900214	METALS	CHROMIUM	ug/L	<	10	10
FTA-M04	19900214	METALS	COPPER	ug/L	<	10	10
FTA-M04	19900214	METALS	LEAD	ug/L	<	30	30
FTA-M04	19900214	METALS	MERCURY	ug/L	<	.2	.2
FTA-M04	19900214	METALS	NICKEL	ug/L	<	15	15
FTA-M04	19900214	METALS	SELENIUM	ug/L	<	2	2
FTA-M04	19900214	METALS	SILVER	ug/L	<	10	10
FTA-M04	19900214	METALS	T LLIUM	ug/L	<	10	10
FTA-M04	19900214	METALS	ZINC	ug/L	<	20	5
FTA-M04	19900214	HERBICIDES ANAL	2,4-D	ug/L	<	50	50
FTA-M04	19900214	HERBICIDES ANAL	2,4,5-T	ug/L	<	50	50
FTA-M04	19900214	HERBICIDES ANAL	2,4,5-TP (SILVEX)	ug/L	<	50	50
FTA-M04	19900214	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M04	19900214	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M04	19900214	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M04	19900214	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M04	19900214	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M04	19900214	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M04	19900214	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M04	19900214	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M04	19900214	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M04	19900214	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M04	19900214	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M04	19900214	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M04	19900214	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
FTA-M04	19900214	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M04	19900214	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M04	19900214	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M04	19900214	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M04	19900214	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M04	19900214	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
FTA-M04	19900214	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M04	19900214	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M04	19900214	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M04	19900214	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M04	19900214	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M04	19900214	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M04	19900214	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M04	19900214	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
FTA-M04	19900214	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M04	19900214	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
FTA-M04	19900214	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M04	19900214	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5



WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M04	19900214	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M04	19900214	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	ACENAPHTHENE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	ACENAPHTHYLENE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	ANTHRACENE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	BENZIDINE	ug/L	<	50	50
FTA-M04	19900214	BASE/NEUTRAL EX	BENZO(a)ANTHRACENE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	BENZO(b)FLUORANTHENE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	BENZO(k)FLUORANTHENE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	BENZO(a)PYRENE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	BENZO(g,h,i)PERYLENE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	BUTYLBENZYLPHthalate	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	4-BROMOPHENYL PHENYL ETHER	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROETHYL)ETHER	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROETHOXY)METHANE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	BIS(2-ETHYLHEXYL)PHthalate	ug/L	<	58	10
FTA-M04	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROISOPROPYL)ETHER	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	2-CHLORONAPHTHALENE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	4-CHLOROPHENYL PHENYL ETHER	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	CHRYSENE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	DIBENZO(a,h)ANTHRACENE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	DI-n-BUTYLPHthalate	ug/L	<	10	10
FTA-M04	19900214	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	10	10
FTA-M04	19900214	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	10	10
FTA-M04	19900214	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	3,3-DICHLOROBENZIDINE	ug/L	<	20	20
FTA-M04	19900214	BASE/NEUTRAL EX	DIETHYL PHthalate	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	DIMETHYL PHthalate	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	2,4-DINITROTOLUENE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	2,6-DINITROTOLUENE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	DI-n-OCTYLPHthalate	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	DIOXIN(2,3,7,8-TCDD)	ug/L	NEG	0	0
FTA-M04	19900214	BASE/NEUTRAL EX	FLUORANTHENE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	FLUORENE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	HEXACHLOROBENZENE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	HEXACHLOROBUTADIENE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	HEXACHLOROCYClopentadiene	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	HEXACHLOROETHANE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	INDENO(1,2,3-c,d)PYRENE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	ISOPHORONE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	NAPHTHALENE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	NITROBENZENE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-METHYLAMINE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-PHENYLAMINE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-n-PROPYLAMINE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	PHENANTHRENE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	PYRENE	ug/L	<	10	10
FTA-M04	19900214	BASE/NEUTRAL EX	1,2,4-TRICHLOROBENZENE	ug/L	<	10	10
FTA-M04	19900214	ACID EXTRACT	4-CHLORO-3-METHYLPHENOL	ug/L	<	10	10
FTA-M04	19900214	ACID EXTRACT	2,4-DICHLOROPHENOL	ug/L	<	10	10
FTA-M04	19900214	ACID EXTRACT	2,4-DIMETHYLPHENOL	ug/L	<	10	10
FTA-M04	19900214	ACID EXTRACT	2,4-DINITROPHENOL	ug/L	<	50	50
FTA-M04	19900214	ACID EXTRACT	2-METHYL-4,6-DINITROPHENOL	ug/L	<	50	50
FTA-M04	19900214	ACID EXTRACT	2-NITROPHENOL	ug/L	<	10	10
FTA-M04	19900214	ACID EXTRACT	4-NITROPHENOL	ug/L	<	50	50
FTA-M04	19900214	ACID EXTRACT	PENTACHLOROPHENOL	ug/L	<	50	50
FTA-M04	19900214	ACID EXTRACT	PHENOL	ug/L	<	10	10
FTA-M04	19900214	ACID EXTRACT	2,4,5-TRICHLOROPHENOL	ug/L	<	10	10
FTA-M04	19900214	PESTICIDES	ALDRIN	ug/L	<	.04	.04
FTA-M04	19900214	PESTICIDES	a-BHC	ug/L	<	.03	.03
FTA-M04	19900214	PESTICIDES	b-BHC	ug/L	<	.06	.06
FTA-M04	19900214	PESTICIDES	g-BHC	ug/L	<	.09	.09
FTA-M04	19900214	PESTICIDES	d-BHC	ug/L	<	.04	.04
FTA-M04	19900214	PESTICIDES	CHLORDANE	ug/L	<	.14	.14
FTA-M04	19900214	PESTICIDES	4,4'-DDD	ug/L	<	.11	.11
FTA-M04	19900214	PESTICIDES	4,4'-DDE	ug/L	<	.04	.04
FTA-M04	19900214	PESTICIDES	4,4'-DDT	ug/L	<	.12	.12
FTA-M04	19900214	PESTICIDES	DIELDRIN	ug/L	<	.02	.02
FTA-M04	19900214	PESTICIDES	ENDOSULFAN I	ug/L	<	.14	.14

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M04	19900214	PESTICIDES	ENDOSULFAN II	ug/L	<	.04	.04
FTA-M04	19900214	PESTICIDES	ENDOSULFAN SULFATE	ug/L	<	.66	.66
FTA-M04	19900214	PESTICIDES	ENDOSIN	ug/L	<	.06	.06
FTA-M04	19900214	PESTICIDES	ENDRIN ALDEHYDE	ug/L	<	.23	.23
FTA-M04	19900214	PESTICIDES	HEPTACHLOR	ug/L	<	.03	.03
FTA-M04	19900214	PESTICIDES	HEPTACHLOR EPOXIDE	ug/L	<	.83	.83
FTA-M04	19900214	PESTICIDES	METHOXYCHLOR	ug/L	<	1.8	1.8
FTA-M04	19900214	PCB	PCB-1016	ug/L	<	.1	.1
FTA-M04	19900214	PCB	PCB-1221	ug/L	<	.1	.1
FTA-M04	19900214	PCB	PCB-1232	ug/L	<	.1	.1
FTA-M04	19900214	PCB	PCB-1242	ug/L	<	.1	.1
FTA-M04	19900214	PCB	PCB-1248	ug/L	<	.1	.1
FTA-M04	19900214	PCB	PCB-1254	ug/L	<	.1	.1
FTA-M04	19900214	PCB	PCB-1260	ug/L	<	.1	.1
FTA-M04	19900214	PESTICIDES	TOXAPHENE	ug/L	<	2.4	2.4
FTA-M04	19900214	TENTATIVELY COM	DI-TERT-BUTYL PHENOL	ug/L		19	.999
FTA-M04	19900214	TENTATIVELY COM	UNIDENTIFIED ALKENE	ug/L		17	.999
FTA-M04	19900214	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		46.7	50
FTA-M04	19900214	SURR COMP	TOLUENE-D8-S	% ug/L		46.2	50
FTA-M04	19900214	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		49.5	50
FTA-M04	19900214	SURR COMP	NITROBENZENE-D5-S	% ug/L		18.3	50
FTA-M04	19900214	SURR COMP	2-FLUOROBIPHENYL-S	% ug/L		24.4	50
FTA-M04	19900214	SURR COMP	TERPHENYL-914	% ug/L		26.8	50
FTA-M04	19900214	SURR COMP	PHENOL-D6-S	% ug/L		26.9	100
FTA-M04	19900214	SURR COMP	2-FLUOROPHENOL-S	% ug/L		48	100.1
FTA-M04	19900214	SURR COMP	2,4,6-TRIBROMOPHENOL-D4-S	% ug/L		60.8	100
FTA-M04	19900214	BASE/NEUTRAL EX	1,2-DIPHENYLHYDRAZINE	ug/L	<	10	10
FTA-M05	19900214	PHYSICAL	pH	ph		5.73	0
FTA-M05	19900214	PHYSICAL	CONDUCTIVITY	umhos		42	0
FTA-M05	19900214	PHYSICAL	TEMPERATURE	deg C		14	0
FTA-M05	19900214	METALS	ANTIMONY	ug/L	<	30	30
FTA-M05	19900214	METALS	ARSENIC	ug/L	<	1	1
FTA-M05	19900214	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M05	19900214	METALS	CADMIUM	ug/L	<	5	5
FTA-M05	19900214	METALS	CHROMIUM	ug/L	<	10	10
FTA-M05	19900214	METALS	COPPER	ug/L	<	10	10
FTA-M05	19900214	METALS	LEAD	ug/L	<	30	30
FTA-M05	19900214	METALS	MERCURY	ug/L	<	.2	.2
FTA-M05	19900214	METALS	NICKEL	ug/L		32.8	15
FTA-M05	19900214	METALS	SELENIUM	ug/L	<	2	2
FTA-M05	19900214	METALS	SILVER	ug/L	<	10	10
FTA-M05	19900214	METALS	THALLIUM	ug/L	<	10	10
FTA-M05	19900214	METALS	ZINC	ug/L		7.75	5
FTA-M05	19900214	HERBICIDES ANAL	2,4-D	ug/L	<	50	50
FTA-M05	19900214	HERBICIDES ANAL	2,4,5-T	ug/L	<	50	50
FTA-M05	19900214	HERBICIDES ANAL	2,4,5-TP (SILVEX)	ug/L	<	50	50
FTA-M05	19900214	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M05	19900214	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M05	19900214	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M05	19900214	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M05	19900214	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M05	19900214	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M05	19900214	PURGEABLE COMPO	CHLORO BENZENE	ug/L	<	5	5
FTA-M05	19900214	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M05	19900214	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M05	19900214	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M05	19900214	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M05	19900214	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M05	19900214	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
FTA-M05	19900214	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M05	19900214	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M05	19900214	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M05	19900214	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M05	19900214	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M05	19900214	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
FTA-M05	19900214	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M05	19900214	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M05	19900214	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M05	19900214	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M05	19900214	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M05	19900214	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M05	19900214	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M05	19900214	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
FTA-M05	19900214	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M05	19900214	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
FTA-M05	19900214	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M05	19900214	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
FTA-M05	19900214	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M05	19900214	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	ACENAPHTHENE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	ACENAPHTHYLENE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	ANTHRACENE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	BENZIDINE	ug/L	<	50	50
FTA-M05	19900214	BASE/NEUTRAL EX	BENZO(a)ANTHRACENE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	BENZO(b)FLUORANTHENE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	BENZO(k)FLUORANTHENE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	BENZO(a)PYRENE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	BENZO(g,h,i)PERYLENE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	BUTYLBENZYLPHthalate	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	4-BROMOPHENYL PHENYL ETHER	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROETHYL)ETHER	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROETHOXY)METHANE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	BIS(2-ETHYLBENXYL)PHthalate	ug/L	<	46	10
FTA-M05	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROISOPROPYL)ETHER	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	2-CHLORONAPHTHALENE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	4-CHLOROPHENYL PHENYL ETHER	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	CHRYSENE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	DIBENZO(a,h)ANTHRACENE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	DI-N-BUTYLPHthalate	ug/L	<	10	10
FTA-M05	19900214	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	10	10
FTA-M05	19900214	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	10	10
FTA-M05	19900214	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	3,3-DICHLOROBENZIDINE	ug/L	<	20	20
FTA-M05	19900214	BASE/NEUTRAL EX	DIMETHYL PHthalate	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	DIETHYL PHthalate	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	2,4-DINITROTOLUENE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	2,6-DINITROLOLUENE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	DI-N-OCTYLPHthalate	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	DIOXIN(2,3,7,8-TCDD)	ug/L	NEG	0	0
FTA-M05	19900214	BASE/NEUTRAL EX	FLUORANTHENE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	FLUORENE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	HEXACHLOROBENZENE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	HEXACHLOROBUTADIENE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	HEXACHLOROCTCLOPENTADIENE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	HEXACHLOROETHANE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	INDENO(1,2,3-c,d)PYRENE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	ISOPHORONE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	NAPHTHALENE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	NITROBENZENE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-METHYLAMINE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-PHENYLAMINE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-N-PROPYLAMINE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	PHENANTHRENE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	PYRENE	ug/L	<	10	10
FTA-M05	19900214	BASE/NEUTRAL EX	1,2,4-TRICHLOROBENZENE	ug/L	<	10	10
FTA-M05	19900214	ACID EXTRACT	4-CHLORO-3-METHYLPHENOL	ug/L	<	10	10
FTA-M05	19900214	ACID EXTRACT	2,4-DICHLOROPHENOL	ug/L	<	10	10
FTA-M05	19900214	ACID EXTRACT	2,4-DIMETHYLPHENOL	ug/L	<	10	10
FTA-M05	19900214	ACID EXTRACT	2,4-DINITROPHENOL	ug/L	<	50	50
FTA-M05	19900214	ACID EXTRACT	2-METHYL-4,6-DINITROPHENOL	ug/L	<	50	50
FTA-M05	19900214	ACID EXTRACT	2-NITROPHENOL	ug/L	<	10	10
FTA-M05	19900214	ACID EXTRACT	4-NITROPHENOL	ug/L	<	50	50
FTA-M05	19900214	ACID EXTRACT	PENTACHLOROPHENOL	ug/L	<	50	50
FTA-M05	19900214	ACID EXTRACT	PHENOL	ug/L	<	10	10
FTA-M05	19900214	ACID EXTRACT	2,4,5-TRICHLOROPHENOL	ug/L	<	10	10
FTA-M05	19900214	PESTICIDES	ALDRIN	ug/L	<	.04	.04
FTA-M05	19900214	PESTICIDES	B-BHC	ug/L	<	.03	.03
FTA-M05	19900214	PESTICIDES	B-BHC	ug/L	<	.06	.06

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M05	19900214	PESTICIDES	g-BHC	ug/L	<	.09	.09
FTA-M05	19900214	PESTICIDES	d-BHC	ug/L	<	.04	.04
FTA-M05	19900214	PESTICIDES	CHLORDANE	ug/L	<	.14	.14
FTA-M05	19900214	PESTICIDES	4,4'-DDD	ug/L	<	.11	.11
FTA-M05	19900214	PESTICIDES	4,4'-DDE	ug/L	<	.04	.04
FTA-M05	19900214	PESTICIDES	4,4'-DDT	ug/L	<	.12	.12
FTA-M05	19900214	PESTICIDES	DIELDRIN	ug/L	<	.02	.02
FTA-M05	19900214	PESTICIDES	ENDOSULFAM I	ug/L	<	.14	.14
FTA-M05	19900214	PESTICIDES	ENDOSULFAM II	ug/L	<	.04	.04
FTA-M05	19900214	PESTICIDES	ENDOSULFAM SULFATE	ug/L	<	.66	.66
FTA-M05	19900214	PESTICIDES	ENDRIN	ug/L	<	.06	.06
FTA-M05	19900214	PESTICIDES	ENDRIN ALDEHYDE	ug/L	<	.23	.23
FTA-M05	19900214	PESTICIDES	HEPTACHLOR	ug/L	<	.03	.03
FTA-M05	19900214	PESTICIDES	HEPTACHLOR EPOXIDE	ug/L	<	.83	.83
FTA-M05	19900214	PESTICIDES	METHOXYCHLOR	ug/L	<	1.8	1.8
FTA-M05	19900214	PCB	PCB-1016	ug/L	<	.1	.1
FTA-M05	19900214	PCB	PCB-1221	ug/L	<	.1	.1
FTA-M05	19900214	PCB	PCB-1232	ug/L	<	.1	.1
FTA-M05	19900214	PCB	PCB-1242	ug/L	<	.1	.1
FTA-M05	19900214	PCB	PCB-1248	ug/L	<	.1	.1
FTA-M05	19900214	PCB	PCB-1254	ug/L	<	.1	.1
FTA-M05	19900214	PCB	PCB-1260	ug/L	<	.1	.1
FTA-M05	19900214	PESTICIDES	TOXAPHENE	ug/L	<	2.4	2.4
FTA-M05	19900214	TENTATIVELY COM	DI-TERT-BUTYL PHENOL	ug/L		14	-999
FTA-M05	19900214	TENTATIVELY COM	UNIDENTIFIED ALKENE	ug/L		24	-999
FTA-M05	19900214	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		45.7	50
FTA-M05	19900214	SURR COMP	TOLUENE-D8-S	% ug/L		48.4	50
FTA-M05	19900214	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		46.4	50
FTA-M05	19900214	SURR COMP	NITROBENZENE-D5-S	% ug/L		20.9	50
FTA-M05	19900214	SURR COMP	2-FLUOROBIPHENYL-S	% ug/L		22.6	50
FTA-M05	19900214	SURR COMP	TERPHENYL-D14	% ug/L		31.3	50
FTA-M05	19900214	SURR COMP	PHENOL-D6-S	% ug/L		30.1	100
FTA-M05	19900214	SURR COMP	2-FLUOROPHENOL-S	% ug/L		45.8	100.1
FTA-M05	19900214	SURR COMP	2,4,6-TRIBROMOPHENOL-D4-S	% ug/L		56.9	100
FTA-M06	19900214	BASE/NEUTRAL EX	1,2-DIPHENYLHYDRAZINE	ug/L	<	10	10
FTA-M06	19900214	PHYSICAL	pH	ph		4.99	0
FTA-M06	19900214	PHYSICAL	CONDUCTIVITY	umhos		33	0
FTA-M06	19900214	PHYSICAL	TEMPERATURE	deg C		13.4	0
FTA-M06	19900214	METALS	ANTIMONY	ug/L	<	30	30
FTA-M06	19900214	METALS	ARSENIC	ug/L	<	1	1
FTA-M06	19900214	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M06	19900214	METALS	CADMIUM	ug/L	<	5	5
FTA-M06	19900214	METALS	CHROMIUM	ug/L	<	10	10
FTA-M06	19900214	METALS	COPPER	ug/L	<	10	10
FTA-M06	19900214	METALS	LEAD	ug/L	<	30	30
FTA-M06	19900214	METALS	MERCURY	ug/L	<	.2	.2
FTA-M06	19900214	METALS	NICKEL	ug/L		144	15
FTA-M06	19900214	METALS	SELENIUM	ug/L	<	2	2
FTA-M06	19900214	METALS	SILVER	ug/L	<	10	10
FTA-M06	19900214	METALS	THALLIUM	ug/L	<	10	10
FTA-M06	19900214	METALS	ZINC	ug/L		17.5	5
FTA-M06	19900214	HERBICIDES ANAL	2,4-D	ug/L	<	50	50
FTA-M06	19900214	HERBICIDES ANAL	2,4,5-T	ug/L	<	50	50
FTA-M06	19900214	HERBICIDES ANAL	2,4,5-TP (SILVEX)	ug/L	<	50	50
FTA-M06	19900214	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M06	19900214	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M06	19900214	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M06	19900214	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M06	19900214	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M06	19900214	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M06	19900214	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M06	19900214	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M06	19900214	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M06	19900214	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M06	19900214	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M06	19900214	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M06	19900214	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
FTA-M06	19900214	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M06	19900214	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M06	19900214	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M06	19900214	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M06	19900214	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M06	19900214	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	6	5
FTA-M06	19900214	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M06	19900214	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M06	19900214	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M06	19900214	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M06	19900214	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M06	19900214	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M06	19900214	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M06	19900214	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
FTA-M06	19900214	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M06	19900214	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	19	5
FTA-M06	19900214	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M06	19900214	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	223	5
FTA-M06	19900214	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M06	19900214	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	ACENAPHTHENE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	ACENAPHTHYLENE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	ANTHRACENE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	BENZIDINE	ug/L	<	50	50
FTA-M06	19900214	BASE/NEUTRAL EX	BENZO(a)ANTHRACENE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	BENZO(b)FLUORANTHENE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	BENZO(k)FLUORANTHENE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	BENZO(a)PYRENE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	BENZO(g,h,i)PERYLENE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	BUTYLBENZYLPHthalate	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	4-BROMOPHENYL PHENYL ETHER	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROETHYL)ETHER	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROETHOXY)METHANE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	BIS(2-ETHYLHEXYL)PHthalate	ug/L	<	56	10
FTA-M06	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROISOPROPYL)ETHER	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	2-CHLORONAPHTHALENE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	4-CHLOROPHENYL PHENYL ETHER	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	CHRYSENE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	DIBENZO(a,h)ANTHRACENE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	DI-4-BUTYLPHthalate	ug/L	<	10	10
FTA-M06	19900214	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	10	10
FTA-M06	19900214	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	10	10
FTA-M06	19900214	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	3,3-DICHLOROBENZIDINE	ug/L	<	20	20
FTA-M06	19900214	BASE/NEUTRAL EX	DIETHYL PHthalate	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	DIMETHYL PHthalate	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	2,4-DINITROTOLUENE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	2,6-DINITROLUENE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	DI-N-OCTYLPHthalate	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	DIOXIN(2,3,7,8-TCDD)	ug/L	NEG	0	0
FTA-M06	19900214	BASE/NEUTRAL EX	FLUORANTHENE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	FLUORENE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	HEXACHLOROBENZENE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	HEXACHLOROBUTADIENE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	HEXACHLOROCYCLOPENTADIENE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	HEXACHLOROETHANE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	INGENOX(1,2,3-c,d)PYRENE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	ISOPHURONE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	NAPHTHALENE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	NITROBENZENE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-METHYLAMINE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-PHENYLAMINE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-N-PROPYLAMINE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	PHENANTHRENE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	PYRENE	ug/L	<	10	10
FTA-M06	19900214	BASE/NEUTRAL EX	1,2,4-TRICHLOROBENZENE	ug/L	<	10	10
FTA-M06	19900214	ACID EXTRACT	4-CHLORO-3-METHYLPHENOL	ug/L	<	10	10
FTA-M06	19900214	ACID EXTRACT	2,4-DICHLOROPHENOL	ug/L	<	10	10
FTA-M06	19900214	ACID EXTRACT	2,4-DIMETHYLPHENOL	ug/L	<	10	10
FTA-M06	19900214	ACID EXTRACT	2,4-DINITROPHENOL	ug/L	<	50	50
FTA-M06	19900214	ACID EXTRACT	2-METHYL-4,6-DINITROPHENOL	ug/L	<	50	50

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M06	19900214	ACID EXTRACT	2-NITROPHENOL	ug/L	<	10	10
FTA-M06	19900214	ACID EXTRACT	4-NITROPHENOL	ug/L	<	50	50
FTA-M06	19900214	ACID EXTRACT	PENTACHLOROPHENOL	ug/L	<	50	50
FTA-M06	19900214	ACID EXTRACT	PHENOL	ug/L	<	10	10
FTA-M06	19900214	ACID EXTRACT	2,4,5-TRICHLOROPHENOL	ug/L	<	10	10
FTA-M06	19900214	PESTICIDES	ALDRIN	ug/L	<	.04	.04
FTA-M06	19900214	PESTICIDES	a-BHC	ug/L	<	.03	.03
FTA-M06	19900214	PESTICIDES	b-BHC	ug/L	<	.06	.06
FTA-M06	19900214	PESTICIDES	g-BHC	ug/L	<	.09	.09
FTA-M06	19900214	PESTICIDES	d-BHC	ug/L	<	.04	.04
FTA-M06	19900214	PESTICIDES	CHLORDANE	ug/L	<	.14	.14
FTA-M06	19900214	PESTICIDES	4,4'-DDD	ug/L	<	.11	.11
FTA-M06	19900214	PESTICIDES	4,4'-DDE	ug/L	<	.04	.04
FTA-M06	19900214	PESTICIDES	4,4'-DDT	ug/L	<	.12	.12
FTA-M06	19900214	PESTICIDES	DIELDRIN	ug/L	<	.02	.02
FTA-M06	19900214	PESTICIDES	ENDOSULFAM I	ug/L	<	.14	.14
FTA-M06	19900214	PESTICIDES	ENDOSULFAM II	ug/L	<	.04	.04
FTA-M06	19900214	PESTICIDES	ENDOSULFAM SULFATE	ug/L	<	.66	.66
FTA-M06	19900214	PESTICIDES	ENDRIN	ug/L	<	.06	.06
FTA-M06	19900214	PESTICIDES	ENDRIN ALDENYDE	ug/L	<	.23	.23
FTA-M06	19900214	PESTICIDES	HEPTACHLOR	ug/L	<	.03	.03
FTA-M06	19900214	PESTICIDES	HEPTACHLOR EPOXIDE	ug/L	<	.83	.83
FTA-M06	19900214	PESTICIDES	METHOXYCHLOR	ug/L	<	1.8	1.8
FTA-M06	19900214	PCB	PCB-1016	ug/L	<	.1	.1
FTA-M06	19900214	PCB	PCB-1221	ug/L	<	.1	.1
FTA-M06	19900214	PCB	PCB-1232	ug/L	<	.1	.1
FTA-M06	19900214	PCB	PCB-1242	ug/L	<	.1	.1
FTA-M06	19900214	PCB	PCB-1248	ug/L	<	.1	.1
FTA-M06	19900214	PCB	PCB-1254	ug/L	<	.1	.1
FTA-M06	19900214	PCB	PCB-1260	ug/L	<	.1	.1
FTA-M06	19900214	PESTICIDES	TOXAPHENE	ug/L	<	2.4	2.4
FTA-M06	19900214	TENTATIVELY COM	DI-TERT-BUTYL PHENOL	ug/L	<	18	.999
FTA-M06	19900214	TENTATIVELY COM	CIS-1,2-DICHLOROETHENE	ug/L	<	13	.999
FTA-M06	19900214	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L	<	43.7	50
FTA-M06	19900214	SURR COMP	TOLUENE-D8-S	% ug/L	<	48.9	50
FTA-M06	19900214	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L	<	48	50
FTA-M06	19900214	SURR COMP	NITROBENZENE-D5-S	% ug/L	<	18.2	50
FTA-M06	19900214	SURR COMP	2-FLUOROBIPHENYL-S	% ug/L	<	25.8	50
FTA-M06	19900214	SURR COMP	TERPHENYL-D14	% ug/L	<	27.1	50
FTA-M06	19900214	SURR COMP	PHENOL-D6-S	% ug/L	<	26.3	100
FTA-M06	19900214	SURR COMP	2-FLUOROPHENOL-S	% ug/L	<	43.3	100.1
FTA-M06	19900214	SURR COMP	2,4,6-TRIBROMOPH. 2L-D4-S	% ug/L	<	63.5	100
FTA-M06	19900214	BASE/NEUTRAL EX	1,2-DIPHENYLHYDRAZINE	ug/L	<	10	10
FTA-M07	19900214	PHYSICAL	pH	pH	<	4.77	0
FTA-M07	19900214	PHYSICAL	CONDUCTIVITY	umhos	<	33	0
FTA-M07	19900214	PHYSICAL	TEMPERATURE	deg C	<	14	0
FTA-M07	19900214	METALS	ANTIMONY	ug/L	<	30	30
FTA-M07	19900214	METALS	ARSENIC	ug/L	<	1	1
FTA-M07	19900214	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M07	19900214	METALS	CADMIUM	ug/L	<	5	5
FTA-M07	19900214	METALS	CHROMIUM	ug/L	<	10	10
FTA-M07	19900214	METALS	COPPER	ug/L	<	10	10
FTA-M07	19900214	METALS	LEAD	ug/L	<	30	30
FTA-M07	19900214	METALS	MERCURY	ug/L	<	.2	.2
FTA-M07	19900214	METALS	NICKEL	ug/L	<	32.5	15
FTA-M07	19900214	METALS	SELENIUM	ug/L	<	2	2
FTA-M07	19900214	METALS	SILVER	ug/L	<	10	10
FTA-M07	19900214	METALS	THALLIUM	ug/L	<	10	10
FTA-M07	19900214	METALS	ZINC	ug/L	<	30.8	5
FTA-M07	19900214	HERBICIDES ANAL	2,4-D	ug/L	<	50	50
FTA-M07	19900214	HERBICIDES ANAL	2,4,5-T	ug/L	<	50	50
FTA-M07	19900214	HERBICIDES ANAL	2,4,5-TP (SILVEX)	ug/L	<	50	50
FTA-M07	19900214	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M07	19900214	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M07	19900214	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M07	19900214	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M07	19900214	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M07	19900214	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M07	19900214	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M07	19900214	PURGEABLE COMPO	CHLOROCHLOROMETHANE	ug/L	<	5	5
FTA-M07	19900214	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M07	19900214	PURGEABLE COMPO	CHLOROFTHANE	ug/L	<	10	10
FTA-M07	19900214	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M07	19900214	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M07	19900214	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
FTA-M07	19900214	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M07	19900214	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M07	19900214	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M07	19900214	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	8.6	5
FTA-M07	19900214	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M07	19900214	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
FTA-M07	19900214	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M07	19900214	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M07	19900214	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M07	19900214	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M07	19900214	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M07	19900214	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M07	19900214	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M07	19900214	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	11.7	5
FTA-M07	19900214	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M07	19900214	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	55.1	5
FTA-M07	19900214	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M07	19900214	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	87.5	5
FTA-M07	19900214	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M07	19900214	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	ACENAPHTHENE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	ACENAPHTHYLENE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	ANTHRACENE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	BENZIDINE	ug/L	<	50	50
FTA-M07	19900214	BASE/NEUTRAL EX	BENZO(a)ANTHRACENE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	BENZO(b)FLUORANTHENE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	BENZO(k)FLUORANTHENE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	BENZO(a)PYRENE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	BENZO(g,h,i)PERYLENE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	BUTYLBENZYLPHthalate	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	4-BROMOPHENYL PHENYL ETHER	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROETHYL) ETHER	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROETHOXY)METHANE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	BIS(2-ETHYLHEXYL)PHthalate	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROISOPROPYL) ETHER	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	2-CHLOROMAPHTHALENE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	4-CHLOROPHENYL PHENYL ETHER	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	CHRYSENE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	DIBENZO(a,h)ANTHRACENE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	DI-N-BUTYLPHthalate	ug/L	<	10	10
FTA-M07	19900214	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	10	10
FTA-M07	19900214	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	10	10
FTA-M07	19900214	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	3,3-DICHLOROBENZOIC ACID	ug/L	<	20	20
FTA-M07	19900214	BASE/NEUTRAL EX	DIETHYL PHthalate	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	DIMETHYL PHthalate	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	2,4-DINITROTOLUENE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	2,6-DINITROTOLUENE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	DI-N-OCTYLPHthalate	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	DIOXIN(2,3,7,8-TCDD)	ug/L	NEG	0	0
FTA-M07	19900214	BASE/NEUTRAL EX	FLUORANTHENE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	FLUORENE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	HEXACHLOROBENZENE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	HEXACHLOROCYCLOPENTADIENE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	HEXACHLOROCYCLOHEPTADIENE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	HEXACHLOROPHTHALENE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	INDENO(1,2,3-c,d)PYRENE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	ISOPHTHALENE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	NAPHTHALENE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	NITROBENZENE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-METHYLAMINE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-PHENYLAMINE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-N-PROPYLAMINE	ug/L	<	10	10

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M07	19900214	BASE/NEUTRAL EX	PHENANTHRENE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	PYRENE	ug/L	<	10	10
FTA-M07	19900214	BASE/NEUTRAL EX	1,2,4-TRICHLOROENZENE	ug/L	<	10	10
FTA-M07	19900214	ACID EXTRACT	4-CHLORO-3-METHYLPHENOL	ug/L	<	10	10
FTA-M07	19900214	ACID EXTRACT	2,4-DICHLOROPHENOL	ug/L	<	10	10
FTA-M07	19900214	ACID EXTRACT	2,4-DIMETHYLPHENOL	ug/L	<	10	10
FTA-M07	19900214	ACID EXTRACT	2,4-DINITROPHENOL	ug/L	<	50	50
FTA-M07	19900214	ACID EXTRACT	2-METHYL-4,6-DINITROPHENOL	ug/L	<	50	50
FTA-M07	19900214	ACID EXTRACT	2-NITROPHENOL	ug/L	<	10	10
FTA-M07	19900214	ACID EXTRACT	4-NITROPHENOL	ug/L	<	50	50
FTA-M07	19900214	ACID EXTRACT	PENTACHLOROPHENOL	ug/L	<	50	50
FTA-M07	19900214	ACID EXTRACT	PHENOL	ug/L	<	10	10
FTA-M07	19900214	ACID EXTRACT	2,4,5-TRICHLOROPHENOL	ug/L	<	10	10
FTA-M07	19900214	PESTICIDES	ALDRIN	ug/L	<	.04	.04
FTA-M07	19900214	PESTICIDES	a-BHC	ug/L	<	.03	.03
FTA-M07	19900214	PESTICIDES	g-BHC	ug/L	<	.06	.06
FTA-M07	19900214	PESTICIDES	g-BHC	ug/L	<	.09	.09
FTA-M07	19900214	PESTICIDES	d-BHC	ug/L	<	.04	.04
FTA-M07	19900214	PESTICIDES	CHLORDANE	ug/L	<	.14	.14
FTA-M07	19900214	PESTICIDES	4,4'-DDD	ug/L	<	.11	.11
FTA-M07	19900214	PESTICIDES	4,4'-DDE	ug/L	<	.04	.04
FTA-M07	19900214	PESTICIDES	4,4'-DDT	ug/L	<	.12	.12
FTA-M07	19900214	PESTICIDES	DIELDRIN	ug/L	<	.07	.07
FTA-M07	19900214	PESTICIDES	ENDOSULFAN I	ug/L	<	.14	.14
FTA-M07	19900214	PESTICIDES	ENDOSULFAN II	ug/L	<	.04	.04
FTA-M07	19900214	PESTICIDES	ENDOSULFAN SULFATE	ug/L	<	.66	.66
FTA-M07	19900214	PESTICIDES	ENDRIN	ug/L	<	.06	.06
FTA-M07	19900214	PESTICIDES	ENDRIN ALDEHYDE	ug/L	<	.23	.23
FTA-M07	19900214	PESTICIDES	HEPTACHLOR	ug/L	<	.03	.03
FTA-M07	19900214	PESTICIDES	HEPTACHLOR EPOXIDE	ug/L	<	.83	.83
FTA-M07	19900214	PESTICIDES	METHOXYCHLOR	ug/L	<	1.8	1.8
FTA-M07	19900214	PCB	PCB-1016	ug/L	<	.1	.1
FTA-M07	19900214	PCB	PCB-1221	ug/L	<	.1	.1
FTA-M07	19900214	PCB	PCB-1232	ug/L	<	.1	.1
FTA-M07	19900214	PCB	PCB-1242	ug/L	<	.1	.1
FTA-M07	19900214	PCB	PCB-1248	ug/L	<	.1	.1
FTA-M07	19900214	PCB	PCB-1254	ug/L	<	.1	.1
FTA-M07	19900214	PCB	PCB-1259	ug/L	<	.1	.1
FTA-M07	19900214	PESTICIDES	TOXAPHENE	ug/L	<	2.4	2.4
FTA-M07	19900214	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L	<	43.7	50
FTA-M07	19900214	SURR COMP	TOLUENE-D8-S	% ug/L	<	47.1	50
FTA-M07	19900214	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L	<	44.8	50
FTA-M07	19900214	SURR COMP	NITROBENZENE-D5-S	% ug/L	<	18.1	50
FTA-M07	19900214	SURR COMP	2-FLUOROBIPHENYL-S	% ug/L	<	23.6	50
FTA-M07	19900214	SURR COMP	TERPENE-D14	% ug/L	<	27	50
FTA-M07	19900214	SURR COMP	PHENOL-D5-S	% ug/L	<	17.8	100
FTA-M07	19900214	SURR COMP	2-FLUOROPHENOL-S	% ug/L	<	30.4	100.1
FTA-M07	19900214	SURR COMP	2,4,6-TRIBROMOPHENOL-D4-S	% ug/L	<	54.6	100
FTA-M07	19900214	BASE/NEUTRAL EX	1,2-DIPHENYLHYDRAZINE	ug/L	<	10	10
FTA-M08	19900214	PHYSICAL	pH	ph	<	4.67	0
FTA-M08	19900214	PHYSICAL	CONDUCTIVITY	umh/s	<	50	0
FTA-M08	19900214	PHYSICAL	TEMPERATURE	deg C	<	14.1	0
FTA-M08	19900214	METALS	ANTIMONY	ug/L	<	30	30
FTA-M08	19900214	METALS	ARSENIC	ug/L	<	1	1
FTA-M08	19900214	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M08	19900214	METALS	CADMIUM	ug/L	<	5	5
FTA-M08	19900214	METALS	CHROMIUM	ug/L	<	10	10
FTA-M08	19900214	METALS	COPPER	ug/L	<	10	10
FTA-M08	19900214	METALS	LEAD	ug/L	<	30	30
FTA-M08	19900214	METALS	MERCURY	ug/L	<	.2	.2
FTA-M08	19900214	METALS	NICKEL	ug/L	<	15	15
FTA-M08	19900214	METALS	SELENIUM	ug/L	<	2	2
FTA-M08	19900214	METALS	SILVER	ug/L	<	10	10
FTA-M08	19900214	METALS	THALLIUM	ug/L	<	10	10
FTA-M08	19900214	METALS	ZINC	ug/L	<	19.8	5
FTA-M08	19900214	HERBICIDES ANAL	2,4-D	ug/L	<	50	50
FTA-M08	19900214	HERBICIDES ANAL	2,4,5-T	ug/L	<	50	50
FTA-M08	19900214	HERBICIDES ANAL	2,4,5-TP (SILVEX)	ug/L	<	50	50
FTA-M08	19900214	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10



WELL #	DATE	READING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M08	19900214	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M08	19900214	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M08	19900214	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M08	19900214	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M08	19900214	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M08	19900214	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M08	19900214	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M08	19900214	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M08	19900214	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M08	19900214	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M08	19900214	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M08	19900214	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
FTA-M08	19900214	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M08	19900214	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M08	19900214	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M08	19900214	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	17.1	5
FTA-M08	19900214	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	8.8	5
FTA-M08	19900214	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	7.5	5
FTA-M08	19900214	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M08	19900214	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M08	19900214	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M08	19900214	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M08	19900214	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M08	19900214	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M08	19900214	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M08	19900214	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	14.5	5
FTA-M08	19900214	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M08	19900214	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	114	5
FTA-M08	19900214	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M08	19900214	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	175	5
FTA-M08	19900214	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M08	19900214	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	ACENAPHTHENE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	ACENAPHTHYLENE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	ANTHRACENE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	BENZIDINE	ug/L	<	50	50
FTA-M08	19900214	BASE/NEUTRAL EX	BENZO(a)ANTHRACENE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	BENZO(b)FLUORANTHENE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	BENZO(k)FLUORANTHENE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	BENZO(a)PYRENE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	BENZO(g,h,i)PYRENE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	BUTYLBENZYLPHthalATE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	4-BROMOPHENYL PHENYL ETHER	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROETHYL) ETHER	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROETHOXY)METHANE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	BIS(2-ETHYLHEXYL)PHTHALATE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROISOPROPYL) ETHER	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	2-CHLOROMAPHTHALENE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	4-CHLOROPHENYL PHENYL ETHER	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	CHRYSENE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	DIBENZO(a,h)ANTHRACENE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	D1-N-BUTYLPHthalATE	ug/L	<	10	10
FTA-M08	19900214	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	10	10
FTA-M08	19900214	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	10	10
FTA-M08	19900214	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	3,3-DICHLOROBENZIDINE	ug/L	<	20	20
FTA-M08	19900214	BASE/NEUTRAL EX	DIETHYL PHTHALATE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	DIMETHYL PHTHALATE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	2,4-DINITROTOLUENE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	2,6-DINITROTOLUENE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	D1-N-OCTYLPHthalATE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	DIOXIN(2,3,7,8-TCDD)	ug/L	<	0	0
FTA-M08	19900214	BASE/NEUTRAL EX	FLUORANTHENE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	FLUORENE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	HEXACHLOROBENZENE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	HEXACHLOROBUTADIENE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	HEXACHLOROXYCLOPENTADIENE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	HEXACHLOROETHANE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	INDENO(1,2,3-c,d)PYRENE	ug/L	<	10	10

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M08	19900214	BASE/NEUTRAL EX	ISOPHORDNE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	NAPHTHALENE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	NITROBENZENE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	M-NITROSO-DI-METHYLAMINE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	M-NITROSO-DI-PHENYLAMINE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	M-NITROSO-DI-M-PROPYLAMINE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	PHENANTHRENE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	PYRENE	ug/L	<	10	10
FTA-M08	19900214	BASE/NEUTRAL EX	1,2,4-TRICHLOROBENZENE	ug/L	<	10	10
FTA-M08	19900214	ACID EXTRACT	4-CHLORO-3-METHYLPHENOL	ug/L	<	10	10
FTA-M08	19900214	ACID EXTRACT	2,4-DICHLOROPHENOL	ug/L	<	10	10
FTA-M08	19900214	ACID EXTRACT	2,4-DIMETHYLPHENOL	ug/L	<	10	10
FTA-M08	19900214	ACID EXTRACT	2,4-DINITROPHENOL	ug/L	<	50	50
FTA-M08	19900214	ACID EXTRACT	2-METHYL-4,6-DINITROPHENOL	ug/L	<	50	50
FTA-M08	19900214	ACID EXTRACT	6-NITROPHENOL	ug/L	<	10	10
FTA-M08	19900214	ACID EXTRACT	4-NITROPHENOL	ug/L	<	50	50
FTA-M08	19900214	ACID EXTRACT	PENTACHLOROPHENOL	ug/L	<	50	50
FTA-M08	19900214	ACID EXTRACT	PHENOL	ug/L	<	10	10
FTA-M08	19900214	ACID EXTRACT	2,4,5-TRICHLOROPHENOL	ug/L	<	10	10
FTA-M08	19900214	PESTICIDES	ALDRIN	ug/L	<	.04	.04
FTA-M08	19900214	PESTICIDES	a-BHC	ug/L	<	.03	.03
FTA-M08	19900214	PESTICIDES	b-BHC	ug/L	<	.06	.06
FTA-M08	19900214	PESTICIDES	g-BHC	ug/L	<	.09	.09
FTA-M08	19900214	PESTICIDES	d-BHC	ug/L	<	.04	.04
FTA-M08	19900214	PESTICIDES	CHLORDANE	ug/L	<	.14	.14
FTA-M08	19900214	PESTICIDES	4,4'-DDD	ug/L	<	.11	.11
FTA-M08	19900214	PESTICIDES	4,4'-DDE	ug/L	<	.04	.04
FTA-M08	19900214	PESTICIDES	4,4'-DDT	ug/L	<	.12	.12
FTA-M08	19900214	PESTICIDES	DIELDRIN	ug/L	<	.02	.02
FTA-M08	19900214	PESTICIDES	ENDOSULFAN I	ug/L	<	.14	.14
FTA-M08	19900214	PESTICIDES	ENDOSULFAN II	ug/L	<	.04	.04
FTA-M08	19900214	PESTICIDES	ENDOSULFAN SULFATE	ug/L	<	.66	.66
FTA-M08	19900214	PESTICIDES	ENDRIN	ug/L	<	.06	.06
FTA-M08	19900214	PESTICIDES	ENDRIN ALDEHYDE	ug/L	<	.23	.23
FTA-M08	19900214	PESTICIDES	HEPTACHLOR	ug/L	<	.03	.03
FTA-M08	19900214	PESTICIDES	HEPTACHLOR EPOXIDE	ug/L	<	.83	.83
FTA-M08	19900214	PESTICIDES	METHOXYCHLOR	ug/L	<	1.8	1.8
FTA-M08	19900214	PCB	PCB-1016	ug/L	<	.1	.1
FTA-M08	19900214	PCB	PCB-1221	ug/L	<	.1	.1
FTA-M08	19900214	PCB	PCB-1232	ug/L	<	.1	.1
FTA-M08	19900214	PCB	PCB-1242	ug/L	<	.1	.1
FTA-M08	19900214	PCB	PCB-1248	ug/L	<	.1	.1
FTA-M08	19900214	PCB	PCB-1254	ug/L	<	.1	.1
FTA-M08	19900214	PCB	PCB-1260	ug/L	<	.1	.1
FTA-M08	19900214	PESTICIDES	TOXAPHENE	ug/L	<	2.4	2.4
FTA-M08	19900214	TENTATIVELY COM	DICHLORO TETRAFLUOROETHANE	ug/L	VOA	21	0
FTA-M08	19900214	TENTATIVELY COM	CIS-1,2-DICHLOROETHENE	ug/L	VOA	21	0
FTA-M08	19900214	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		43.4	50
FTA-M08	19900214	SURR COMP	TOLUENE-D8-S	% ug/L		46.6	50
FTA-M08	19900214	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		47.1	50
FTA-M08	19900214	SURR COMP	NITROBENZENE-D5-S	% ug/L		21.1	50
FTA-M08	19900214	SURR COMP	2-FLUOROBIPHENYL-S	% ug/L		28	50
FTA-M08	19900214	SURR COMP	TERPENEYL-D14	% ug/L		28.3	0
FTA-M08	19900214	SURR COMP	PHENOL-D6-S	% ug/L		31.4	100
FTA-M08	19900214	SURR COMP	2-FLUOROPHENOL-S	% ug/L		44	100
FTA-M08	19900214	SURR COMP	2,4,6-TRIBROMOPHENOL-D4-S	% ug/L		63.9	100
FTA-M08	19900214	BASE/NEUTRAL EX	1,2-DIPHENYLHYDRAZINE	ug/L	<	10	10
FTA-M09	19900214	PHYSICAL	pH	pH		5.45	0
FTA-M09	19900214	PHYSICAL	CONDUCTIVITY	umhos		83	0
FTA-M09	19900214	PHYSICAL	TEMPERATURE	deg C		13.8	0
FTA-M09	19900214	METALS	ANTIMONY	ug/L	<	30	30
FTA-M09	19900214	METALS	ARSENIC	ug/L	<	1	1
FTA-M09	19900214	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M09	19900214	METALS	CADMIUM	ug/L	<	5	5
FTA-M09	19900214	METALS	CHROMIUM	ug/L	<	10	10
FTA-M09	19900214	METALS	COPPER	ug/L	<	10	10
FTA-M09	19900214	METALS	LEAD	ug/L	<	30	30
FTA-M09	19900214	METALS	MERCURY	ug/L	<	.2	.2
FTA-M09	19900214	METALS	NICKEL	ug/L		28.2	15

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M09	19900214	METALS	SELENIUM	ug/L	<	2	2
FTA-M09	19900214	METALS	SILVER	ug/L	<	10	10
FTA-M09	19900214	METALS	THALLIUM	ug/L	<	10	10
FTA-M09	19900214	METALS	ZINC	ug/L	<	26	5
FTA-M09	19900214	HERBICIDES ANAL	2,4-D	ug/L	<	50	50
FTA-M09	19900214	HERBICIDES ANAL	2,4,5-T	ug/L	<	50	50
FTA-M09	19900214	HERBICIDES ANAL	2,4,5-TP (SILVEX)	ug/L	<	50	50
FTA-M09	19900214	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M09	19900214	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M09	19900214	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M09	19900214	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M09	19900214	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M09	19900214	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M09	19900214	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M09	19900214	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M09	19900214	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M09	19900214	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M09	19900214	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M09	19900214	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M09	19900214	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
FTA-M09	19900214	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M09	19900214	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M09	19900214	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M09	19900214	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M09	19900214	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M09	19900214	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
FTA-M09	19900214	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M09	19900214	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M09	19900214	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M09	19900214	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M09	19900214	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M09	19900214	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M09	19900214	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M09	19900214	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
FTA-M09	19900214	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M09	19900214	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	14.9	5
FTA-M09	19900214	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M09	19900214	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	17.7	5
FTA-M09	19900214	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M09	19900214	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	ACENAPHTHENE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	ACENAPHTHYLENE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	ANTHRACENE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	BENZIDINE	ug/L	<	50	50
FTA-M09	19900214	BASE/NEUTRAL EX	BENZO(a)ANTHRACENE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	BENZO(b)FLUORANTHENE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	BENZO(k)FLUORANTHENE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	BENZO(a)PYRENE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	BENZO(g,h,i)PERYLENE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	BUTYLBENZYLPHthalate	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	4-BROMOPHENYL PHENYL ETHER	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROETHYL)ETHER	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROETHOXY)METHANE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	BIS(2-ETHYLHEXYL)PHthalate	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROISOPROPYL)ETHER	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	2-CHLORONAPHTHALENE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	4-CHLOROPHENYL PHENYL ETHER	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	CHRYSENE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	DIBENZO(a,h)ANTHRACENE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	DI-N-BUTYLPHthalate	ug/L	<	10	10
FTA-M09	19900214	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	10	10
FTA-M09	19900214	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	10	10
FTA-M09	19900214	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	3,3-DICHLOROBENZIDINE	ug/L	<	20	20
FTA-M09	19900214	BASE/NEUTRAL EX	DIETHYL PHthalate	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	DIMETHYL PHthalate	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	2,4-DINITROTOLUENE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	2,6-DINITROTOLUENE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	DI-N-OCTYLPHthalate	ug/L	<	10	10

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M09	19900214	BASE/NEUTRAL EX	DIOXIN(2,3,7,8-TCDD)	ug/L	<	0	0
FTA-M09	19900214	BASE/NEUTRAL EX	FLUORANTHENE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	FLUORENE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	HEXACHLOROBENZENE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	HEXACHLOROBUTADIENE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	HEXACHLOROCYCLOPENTADIENE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	HEXACHLOROETHANE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	INDENO(1,2,3-c,d)PYRENE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	ISOPHORONE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	NAPHTHALENE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	NITROBENZENE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-METHYLAMINE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-PHENYLAMINE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-N-PROPYLAMINE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	PHENANTHRENE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	PYRENE	ug/L	<	10	10
FTA-M09	19900214	BASE/NEUTRAL EX	1,2,4-TRICHLOROBENZENE	ug/L	<	10	10
FTA-M09	19900214	ACID EXTRACT	4-CHLORO-3-METHYLPHENOL	ug/L	<	10	10
FTA-M09	19900214	ACID EXTRACT	2,4-DICHLOROPHENOL	ug/L	<	10	10
FTA-M09	19900214	ACID EXTRACT	2,4-DIMETHYLPHENOL	ug/L	<	10	10
FTA-M09	19900214	ACID EXTRACT	2,4-DINITROPHENOL	ug/L	<	50	50
FTA-M09	19900214	ACID EXTRACT	2-METHYL-4,6-DINITROPHENOL	ug/L	<	50	50
FTA-M09	19900214	ACID EXTRACT	2-NITROPHENOL	ug/L	<	10	10
FTA-M09	19900214	ACID EXTRACT	4-NITROPHENOL	ug/L	<	50	50
FTA-M09	19900214	ACID EXTRACT	PENTACHLOROPHENOL	ug/L	<	50	50
FTA-M09	19900214	ACID EXTRACT	PHENOL	ug/L	<	10	10
FTA-M09	19900214	ACID EXTRACT	2,4,5-TRICHLOROPHENOL	ug/L	<	10	10
FTA-M09	19900214	PESTICIDES	ALDRIN	ug/L	<	.04	.04
FTA-M09	19900214	PESTICIDES	a-BHC	ug/L	<	.03	.03
FTA-M09	19900214	PESTICIDES	b-BHC	ug/L	<	.06	.06
FTA-M09	19900214	PESTICIDES	g-BHC	ug/L	<	.09	.09
FTA-M09	19900214	PESTICIDES	d-BHC	ug/L	<	.04	.04
FTA-M09	19900214	PESTICIDES	CHLORDANE	ug/L	<	.14	.14
FTA-M09	19900214	PESTICIDES	4,4'-DDD	ug/L	<	.11	.11
FTA-M09	19900214	PESTICIDES	4,4'-DDE	ug/L	<	.04	.04
FTA-M09	19900214	PESTICIDES	4,4'-DDT	ug/L	<	.12	.12
FTA-M09	19900214	PESTICIDES	DIELDRIN	ug/L	<	.02	.02
FTA-M09	19900214	PESTICIDES	ENDOSULFAM I	ug/L	<	.14	.14
FTA-M09	19900214	PESTICIDES	ENDOSULFAM II	ug/L	<	.04	.04
FTA-M09	19900214	PESTICIDES	ENDOSULFAM SULFATE	ug/L	<	.66	.66
FTA-M09	19900214	PESTICIDES	ENDRIN	ug/L	<	.06	.06
FTA-M09	19900214	PESTICIDES	ENDRIN ALDEHYDE	ug/L	<	.23	.23
FTA-M09	19900214	PESTICIDES	HEPTACHLOR	ug/L	<	.03	.03
FTA-M09	19900214	PESTICIDES	HEPTACHLOR EPOXIDE	ug/L	<	.83	.83
FTA-M09	19900214	PESTICIDES	METHOXYCHLOR	ug/L	<	1.8	1.8
FTA-M09	19900214	PCB	PCB-1016	ug/L	<	.1	.1
FTA-M09	19900214	PCB	PCB-1221	ug/L	<	.1	.1
FTA-M09	19900214	PCB	PCB-1232	ug/L	<	.1	.1
FTA-M09	19900214	PCB	PCB-1242	ug/L	<	.1	.1
FTA-M09	19900214	PCB	PCB-1248	ug/L	<	.1	.1
FTA-M09	19900214	PCB	PCB-1254	ug/L	<	.1	.1
FTA-M09	19900214	PCB	PCB-1260	ug/L	<	.1	.1
FTA-M09	19900214	PESTICIDES	TOXAPHENE	ug/L	<	2.4	2.4
FTA-M09	19900214	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L	<	39.7	50
FTA-M09	19900214	SURR COMP	TOLUENE-D8-S	% ug/L	<	46.3	50
FTA-M09	19900214	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L	<	47	50
FTA-M09	19900214	SURR COMP	NITROBENZENE-D5-S	% ug/L	<	21.6	50
FTA-M09	19900214	SURR COMP	2-FLUOROBIPHENYL-S	% ug/L	<	30.1	50
FTA-M09	19900214	SURR COMP	TERPHENYL-D14	% ug/L	<	29.3	50
FTA-M09	19900214	SURR COMP	PHENOL-D6-S	% ug/L	<	26.9	100
FTA-M09	19900214	SURR COMP	2-FLUOROPHENOL-S	% ug/L	<	38.4	100
FTA-M09	19900214	SURR COMP	2,4,6-TRIBROMOPHENOL-D4-S	% ug/L	<	69.7	100
FTA-M10	19900214	BASE/NEUTRAL EX	1,2-DIPHENYLHYDRAZINE	ug/L	<	10	10
FTA-M10	19900214	PHYSICAL	pH			6.27	0
FTA-M10	19900214	PHYSICAL	CONDUCTIVITY	umhos		25	0
FTA-M10	19900214	PHYSICAL	TEMPERATURE	deg C		13.3	0
FTA-M10	19900214	METALS	ANTIMONY	ug/L	<	30	30
FTA-M10	19900214	METALS	ARSENIC	ug/L	<	1	1
FTA-M10	19900214	METALS	BERYLLIUM	ug/L	<	1	1

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M10	19900214	METALS	CADMIUM	ug/L	<	5	5
FTA-M10	19900214	METALS	CHROMIUM	ug/L	<	10	10
FTA-M10	19900214	METALS	COPPER	ug/L	<	10	10
FTA-M10	19900214	METALS	LEAD	ug/L	<	30	30
FTA-M10	19900214	METALS	MERCURY	ug/L	<	.2	.2
FTA-M10	19900214	METALS	NICKEL	ug/L	<	15	15
FTA-M10	19900214	METALS	SELENIUM	ug/L	<	2	2
FTA-M10	19900214	METALS	SILVER	ug/L	<	10	10
FTA-M10	19900214	METALS	THALLIUM	ug/L	<	10	10
FTA-M10	19900214	METALS	ZINC	ug/L	<	13.2	5
FTA-M10	19900214	HERBICIDES ANAL	2,4-D	ug/L	<	50	50
FTA-M10	19900214	HERBICIDES ANAL	2,4,5-T	ug/L	<	50	50
FTA-M10	19900214	HERBICIDES ANAL	2,4,5-TP (SILVEX)	ug/L	<	50	50
FTA-M10	19900214	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M10	19900214	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M10	19900214	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M10	19900214	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M10	19900214	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M10	19900214	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M10	19900214	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M10	19900214	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M10	19900214	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M10	19900214	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M10	19900214	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M10	19900214	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M10	19900214	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
FTA-M10	19900214	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M10	19900214	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M10	19900214	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M10	19900214	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M10	19900214	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M10	19900214	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
FTA-M10	19900214	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M10	19900214	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M10	19900214	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M10	19900214	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M10	19900214	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M10	19900214	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M10	19900214	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M10	19900214	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
FTA-M10	19900214	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M10	19900214	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
FTA-M10	19900214	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M10	19900214	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
FTA-M10	19900214	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M10	19900214	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	ACENAPHTHENE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	ACENAPHTYLENE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	ANTHRACENE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	BENZIDINE	ug/L	<	50	50
FTA-M10	19900214	BASE/NEUTRAL EX	BENZO(a)ANTHRACENE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	BENZO(b)FLUORANTHENE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	BENZO(k)FLUORANTHENE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	BENZO(a)PYRENE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	BENZO(g,h,i)PERYLENE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	BUTYLBENZYLPHTHALATE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	4-BROMOPHENYL PHENYL ETHER	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROETHYL)ETHER	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROETHOXY)METHANE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	BIS(2-ETHYLHEXYL)PHTHALATE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROISOPROPYL)ETHER	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	2-CHLORONAPHTHALENE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	4-CHLOROPHENYL PHENYL ETHER	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	CHRYSENE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	DIBENZO(a,h)ANTHRACENE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	DI-N-BUTYLPHTHALATE	ug/L	<	10	10
FTA-M10	19900214	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	10	10
FTA-M10	19900214	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	10	10
FTA-M10	19900214	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	10	10

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M10	19900214	BASE/NEUTRAL EX	3,3-DICHLOROBENZIDINE	ug/L	<	20	20
FTA-M10	19900214	BASE/NEUTRAL EX	DIETHYL PHTHALATE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	DIMETHYL PHTHALATE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	2,4-DINITROLOUENE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	2,6-DINITROLOUENE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	DI-N-OCTYLPHTHALATE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	DIOXIN(2,3,7,8-TCDD)	ug/L	<	0	0
FTA-M10	19900214	BASE/NEUTRAL EX	FLUORANTHENE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	FLUCRENE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	HEXACHLOROBENZENE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	HEXACHLOROCYCLOPENTADIENE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	HEXACHLOROCYCLOPENTADIENE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	HEXACHLOROETHANE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	INDENO(1,2,3-c,d)PYRENE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	ISOPHORONE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	NAPHTHALENE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	NITROBENZENE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-METHYLAMINE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-PHENYLAMINE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-N-PROPYLAMINE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	PHENANTHRENE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	PYRENE	ug/L	<	10	10
FTA-M10	19900214	BASE/NEUTRAL EX	1,2,4-TRICHLOROBENZENE	ug/L	<	10	10
FTA-M10	19900214	ACID EXTRACT	4-CHLORO-3-METHYLPHENOL	ug/L	<	10	10
FTA-M10	19900214	ACID EXTRACT	2,4-DICHLOROPHENOL	ug/L	<	10	10
FTA-M10	19900214	ACID EXTRACT	2,4-DIMETHYLPHENOL	ug/L	<	10	10
FTA-M10	19900214	ACID EXTRACT	2,4-DINITROPHENOL	ug/L	<	50	50
FTA-M10	19900214	ACID EXTRACT	2-METHYL-4,6-DINITROPHENOL	ug/L	<	50	50
FTA-M10	19900214	ACID EXTRACT	2-NITROPHENOL	ug/L	<	10	10
FTA-M10	19900214	ACID EXTRACT	4-NITROPHENOL	ug/L	<	50	50
FTA-M10	19900214	ACID EXTRACT	PENTACHLOROPHENOL	ug/L	<	50	50
FTA-M10	19900214	ACID EXTRACT	PHENOL	ug/L	<	10	10
FTA-M10	19900214	ACID EXTRACT	2,4,5-TRICHLOROPHENOL	ug/L	<	10	10
FTA-M10	19900214	PESTICIDES	ALDRIN	ug/L	<	.04	.04
FTA-M10	19900214	PESTICIDES	a-BHC	ug/L	<	.03	.03
FTA-M10	19900214	PESTICIDES	b-BHC	ug/L	<	.06	.06
FTA-M10	19900214	PESTICIDES	g-BHC	ug/L	<	.09	.09
FTA-M10	19900214	PESTICIDES	d-BHC	ug/L	<	.04	.04
FTA-M10	19900214	PESTICIDES	CHLORDANE	ug/L	<	.14	.14
FTA-M10	19900214	PESTICIDES	4,4'-DDD	ug/L	<	.11	.11
FTA-M10	19900214	PESTICIDES	4,4'-DDE	ug/L	<	.04	.04
FTA-M10	19900214	PESTICIDES	4,4'-DDT	ug/L	<	.12	.12
FTA-M10	19900214	PESTICIDES	DIELDRIN	ug/L	<	.02	.02
FTA-M10	19900214	PESTICIDES	ENDOSULFAM I	ug/L	<	.14	.14
FTA-M10	19900214	PESTICIDES	ENDOSULFAM II	ug/L	<	.04	.04
FTA-M10	19900214	PESTICIDES	ENDOSULFAM SULFATE	ug/L	<	.66	.66
FTA-M10	19900214	PESTICIDES	ENDRIN	ug/L	<	.06	.06
FTA-M10	19900214	PESTICIDES	ENDRIN ALDEHYDE	ug/L	<	.23	.23
FTA-M10	19900214	PESTICIDES	HEPTACHLOR	ug/L	<	.03	.03
FTA-M10	19900214	PESTICIDES	HEPTACHLOR EPOXIDE	ug/L	<	.83	.83
FTA-M10	19900214	PESTICIDES	METHOXYCHLOR	ug/L	<	1.8	1.8
FTA-M10	19900214	PCB	PCB-1016	ug/L	<	.1	.1
FTA-M10	19900214	PCB	PCB-1221	ug/L	<	.1	.1
FTA-M10	19900214	PCB	PCB-1232	ug/L	<	.1	.1
FTA-M10	19900214	PCB	PCB-1242	ug/L	<	.1	.1
FTA-M10	19900214	PCB	PCB-1248	ug/L	<	.1	.1
FTA-M10	19900214	PCB	PCB-1254	ug/L	<	.1	.1
FTA-M10	19900214	PCB	PCB-1260	ug/L	<	.1	.1
FTA-M10	19900214	PESTICIDES	TOXAPHENE	ug/L	<	2.4	2.4
FTA-M10	19900214	SURR COMP	1,2-DICHLOROBENZENE-D4-S	% ug/L	<	41.7	50
FTA-M10	19900214	SURR COMP	TOLUENE-D8-S	% ug/L	<	49	50
FTA-M10	19900214	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L	<	48.2	50
FTA-M10	19900214	SURR COMP	NITROBENZENE-D5-S	% ug/L	<	20.9	50
FTA-M10	19900214	SURR COMP	2-FLUOROBIPHENYL-S	% ug/L	<	28.5	50
FTA-M10	19900214	SURR COMP	TERPENEYL-D14	% ug/L	<	26.7	50
FTA-M10	19900214	SURR COMP	PHENOL-D6-S	% ug/L	<	27.2	100
FTA-M10	19900214	SURR COMP	2-FLUOROPHENOL-S	% ug/L	<	39	100
FTA-M10	19900214	SURR COMP	2,4,6-TRIBROMOPHENOL-D4-S	% ug/L	<	58.1	100
FTA-M10	19900214	BASE/NEUTRAL EX	1,2-DIPHENYLHYDRAZINE	ug/L	<	10	10

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M11	19900214	PHYSICAL	PH	ph		5.33	0
FTA-M11	19900214	PHYSICAL	CONDUCTIVITY	umhos		50	0
FTA-M11	19900214	PHYSICAL	TEMPERATURE	deg C		14.3	0
FTA-M11	19900214	METALS	ANTIMONY	ug/L	<	30	30
FTA-M11	19900214	METALS	ARSENIC	ug/L	<	1	1
FTA-M11	19900214	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M11	19900214	METALS	CADMIUM	ug/L	<	5	5
FTA-M11	19900214	METALS	CHROMIUM	ug/L	<	10	10
FTA-M11	19900214	METALS	COPPER	ug/L	<	10	10
FTA-M11	19900214	METALS	LEAD	ug/L	<	30	30
FTA-M11	19900214	METALS	MERCURY	ug/L	<	.2	.2
FTA-M11	19900214	METALS	NICKEL	ug/L		64.2	15
FTA-M11	19900214	METALS	SELENIUM	ug/L	<	2	2
FTA-M11	19900214	METALS	SILVER	ug/L	<	10	10
FTA-M11	19900214	METALS	THALLIUM	ug/L	<	10	10
FTA-M11	19900214	METALS	ZINC	ug/L		13.8	5
FTA-M11	19900214	HERBICIDES ANAL	2,4-D	ug/L	<	50	50
FTA-M11	19900214	HERBICIDES ANAL	2,4,5-T	ug/L	<	50	50
FTA-M11	19900214	HERBICIDES ANAL	2,4,5-TP (SILVEX)	ug/L	<	50	50
FTA-M11	19900214	PURGEABLE COMPO	AUROLEIN	ug/L	<	10	10
FTA-M11	19900214	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M11	19900214	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M11	19900214	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M11	19900214	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M11	19900214	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M11	19900214	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M11	19900214	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M11	19900214	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M11	19900214	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M11	19900214	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M11	19900214	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M11	19900214	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
FTA-M11	19900214	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M11	19900214	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M11	19900214	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M11	19900214	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M11	19900214	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M11	19900214	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
FTA-M11	19900214	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M11	19900214	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M11	19900214	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M11	19900214	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M11	19900214	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M11	19900214	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M11	19900214	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M11	19900214	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
FTA-M11	19900214	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M11	19900214	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
FTA-M11	19900214	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M11	19900214	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
FTA-M11	19900214	PURGEABLE COMPO	TRICHLOROFUOROMETHANE	ug/L	<	10	10
FTA-M11	19900214	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	ACENAPHTHENE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	ACENAPHTHYLENE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	ANTHRACENE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	BENZIDINE	ug/L	<	50	50
FTA-M11	19900214	BASE/NEUTRAL EX	BENZO(a)ANTHRACENE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	BENZO(b)FLUORANTHENE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	BENZO(k)FLUORANTHENE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	BENZO(a)PYRENE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	BENZO(g,h,i)PERYLENE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	BUTYLBENZYLPHthalate	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	4-BROMOPHENYL PHENYL ETHER	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROETHYL) ETHER	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROETHOXY) METHANE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	BIS(2-ETHYLHEXYL) PHthalate	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROISOPROPYL) ETHER	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	2-CHLORONAPHTHALENE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	4-CHLOROPHENYL PHENYL ETHER	ug/L	<	10	10

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M11	19900214	BASE/NEUTRAL EX	CHRYSENE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	DIBENZO(a,h)ANTHRACENE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	DI-N-BUTYLPHTHALATE	ug/L	<	10	10
FTA-M11	19900214	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	10	10
FTA-M11	19900214	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	10	10
FTA-M11	19900214	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	3,3-DICHLOROBENZIDINE	ug/L	<	20	20
FTA-M11	19900214	BASE/NEUTRAL EX	DIETHYL PHTHALATE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	DIMETHYL PHTHALATE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	2,4-DINITROTOLUENE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	2,6-DINITROLOLUENE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	DI-N-OCTYLPHTHALATE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	DIOXIN(2,3,7,8-TCDD)	ug/L	<	0	0
FTA-M11	19900214	BASE/NEUTRAL EX	FLUORANTHENE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	FLUORENE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	HEXACHLOROBENZENE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	HEXACHLOROBUTADIENE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	HEXACHLOROCYCLOPENTADIENE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	HEXACHLOROETHANE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	INDENO(1,2,3-c,d)PYRENE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	ISOPHORENE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	NAPHTHALENE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	NITROBENZENE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-METHYLAMINE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-PHENYLAMINE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-N-PROPYLAMINE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	PHENANTHRENE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	PYRENE	ug/L	<	10	10
FTA-M11	19900214	BASE/NEUTRAL EX	1,2,4-TRICHLOROBENZENE	ug/L	<	10	10
FTA-M11	19900214	ACID EXTRACT	4-CHLORO-3-METHYLPHENOL	ug/L	<	10	10
FTA-M11	19900214	ACID EXTRACT	2,4-DICHLOROPHENOL	ug/L	<	10	10
FTA-M11	19900214	ACID EXTRACT	2,4-DIMETHYLPHENOL	ug/L	<	10	10
FTA-M11	19900214	ACID EXTRACT	2,4-DINITROPHENOL	ug/L	<	50	50
FTA-M11	19900214	ACID EXTRACT	2-METHYL-4,6-DINITROPHENOL	ug/L	<	50	50
FTA-M11	19900214	ACID EXTRACT	2-NITROPHENOL	ug/L	<	10	10
FTA-M11	19900214	ACID EXTRACT	4-NITROPHENOL	ug/L	<	50	50
FTA-M11	19900214	ACID EXTRACT	PENTACHLOROPHENOL	ug/L	<	50	50
FTA-M11	19900214	ACID EXTRACT	PHENOL	ug/L	<	10	10
FTA-M11	19900214	ACID EXTRACT	2,4,5-TRICHLOROPHENOL	ug/L	<	10	10
FTA-M11	19900214	PESTICIDES	ALDRIN	ug/L	<	.04	.04
FTA-M11	19900214	PESTICIDES	a-BHC	ug/L	<	.03	.03
FTA-M11	19900214	PESTICIDES	b-BHC	ug/L	<	.06	.06
FTA-M11	19900214	PESTICIDES	g-BHC	ug/L	<	.09	.09
FTA-M11	19900214	PESTICIDES	d-BHC	ug/L	<	.04	.04
FTA-M11	19900214	PESTICIDES	CHLORDANE	ug/L	<	.14	.14
FTA-M11	19900214	PESTICIDES	4,4'-DDE	ug/L	<	.11	.11
FTA-M11	19900214	PESTICIDES	4,4'-DDE	ug/L	<	.04	.04
FTA-M11	19900214	PESTICIDES	4,4'-DDT	ug/L	<	.12	.12
FTA-M11	19900214	PESTICIDES	DIELDRIN	ug/L	<	.02	.02
FTA-M11	19900214	PESTICIDES	ENDOSULFAN I	ug/L	<	.14	.14
FTA-M11	19900214	PESTICIDES	ENDOSULFAN II	ug/L	<	.04	.04
FTA-M11	19900214	PESTICIDES	ENDOSULFAN SULFATE	ug/L	<	.66	.66
FTA-M11	19900214	PESTICIDES	ENDRIN	ug/L	<	.06	.06
FTA-M11	19900214	PESTICIDES	ENDRIN ALDEHYDE	ug/L	<	.23	.23
FTA-M11	19900214	PESTICIDES	HEPTACHLOR	ug/L	<	.03	.03
FTA-M11	19900214	PESTICIDES	HEPTACHLOR EPOXIDE	ug/L	<	.83	.83
FTA-M11	19900214	PESTICIDES	METHOXYCHLOR	ug/L	<	1.8	1.8
FTA-M11	19900214	PCB	PCB-1016	ug/L	<	.1	.1
FTA-M11	19900214	PCB	PCB-1221	ug/L	<	.1	.1
FTA-M11	19900214	PCB	PCB-1232	ug/L	<	.1	.1
FTA-M11	19900214	PCB	PCB-1242	ug/L	<	.1	.1
FTA-M11	19900214	PCB	PCB-1248	ug/L	<	.1	.1
FTA-M11	19900214	PCB	PCB-1254	ug/L	<	.1	.1
FTA-M11	19900214	PCB	PCB-1260	ug/L	<	.1	.1
FTA-M11	19900214	PESTICIDES	TOXAPHENE	ug/L	<	2.4	2.4
FTA-M11	19900214	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		44.8	50
FTA-M11	19900214	SURR COMP	TOLUENE-D8-S	% ug/L		47.2	50
FTA-M11	19900214	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		47.3	50
FTA-M11	19900214	SURR COMP	NITROBENZENE-O5-S	% ug/L		20.1	50



WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M11	19900214	SURR COMP	2-FLUOROBIPHENYL-S	% ug/L		28.8	50
FTA-M11	19900214	SURR COMP	TERPHENYL-D14	% ug/L		26.7	50
FTA-M11	19900214	SURR COMP	PHENOL-D6-S	% ug/L		19.1	100
FTA-M11	19900214	SURR COMP	2-FLUOROPHENOL-S	% ug/L		29.9	100
FTA-M11	19900214	SURR COMP	2,4,6-TRIBROMOPHENOL-D4-S	% ug/L		55.4	100
FTA-M11	19900214	BASE/NEUTRAL EX	1,2-DIPHENYLHYDRAZINE	ug/L	<	10	10
FTA-M12	19900214	PHYSICAL	pH	ph	5.92		0
FTA-M12	19900214	PHYSICAL	CONDUCTIVITY	umhos	45		0
FTA-M12	19900214	PHYSICAL	TEMPERATURE	deg C	13.7		0
FTA-M12	19900214	METALS	ANTIMONY	ug/L	<	30	30
FTA-M12	19900214	METALS	ARSENIC	ug/L	<	1	1
FTA-M12	19900214	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M12	19900214	METALS	CADMIUM	ug/L	<	5	5
FTA-M12	19900214	METALS	CHROMIUM	ug/L	<	10	10
FTA-M12	19900214	METALS	COPPER	ug/L	<	10	10
FTA-M12	19900214	METALS	LEAD	ug/L	<	30	30
FTA-M12	19900214	METALS	MERCURY	ug/L	<	.2	.2
FTA-M12	19900214	METALS	NICKEL	ug/L	<	15	15
FTA-M12	19900214	METALS	SELENIUM	ug/L	<	2	2
FTA-M12	19900214	METALS	SILVER	ug/L	<	10	10
FTA-M12	19900214	METALS	THALLIUM	ug/L	<	10	10
FTA-M12	19900214	METALS	ZINC	ug/L		19.5	5
FTA-M12	19900214	HERBICIDES ANAL	2,4-D	ug/L	<	50	50
FTA-M12	19900214	HERBICIDES ANAL	2,4,5-T	ug/L	<	50	50
FTA-M12	19900214	HERBICIDES ANAL	2,4,5-TP (SILVEX)	ug/L	<	50	50
FTA-M12	19900214	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M12	19900214	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M12	19900214	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M12	19900214	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M12	19900214	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M12	19900214	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M12	19900214	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M12	19900214	PURGEABLE COMPO	CHLOROETHANOL	ug/L	<	5	5
FTA-M12	19900214	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M12	19900214	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M12	19900214	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M12	19900214	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M12	19900214	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
FTA-M12	19900214	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M12	19900214	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M12	19900214	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M12	19900214	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M12	19900214	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M12	19900214	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
FTA-M12	19900214	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M12	19900214	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M12	19900214	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M12	19900214	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M12	19900214	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M12	19900214	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M12	19900214	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M12	19900214	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
FTA-M12	19900214	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M12	19900214	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L		10.6	5
FTA-M12	19900214	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M12	19900214	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
FTA-M12	19900214	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M12	19900214	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	ACENAPHTHENE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	ACENAPHTHYLENE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	ANTHRACENE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	BENZIDINE	ug/L	<	50	50
FTA-M12	19900214	BASE/NEUTRAL EX	BENZO(a)ANTHRACENE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	BENZO(b)FLUORANTHENE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	BENZO(k)FLUORANTHENE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	BENZO(a)PYRENE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	BENZO(g,h,i)PERYENE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	BUTYLBENZYLPHENYL ETHER	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	4-BROMOPHENYL PHENYL ETHER	ug/L	<	10	10

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M12	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROETHYL)ETHER	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROETHOXY)METHANE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	BIS(2-ETHYLHEXYL)PHTHALATE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	BIS(2-CHLOROISOPROPYL)ETHER	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	2-CHLORONAPHTHALENE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	4-CHLOROPHENYL PHENYL ETHER	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	CHRYSENE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	DIBENZO(a,h)ANTHRACENE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	DI-N-BUTYLPHTHALATE	ug/L	<	10	10
FTA-M12	19900214	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	10	10
FTA-M12	19900214	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	10	10
FTA-M12	19900214	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	3,3-DICHLOROBENZIDINE	ug/L	<	20	20
FTA-M12	19900214	BASE/NEUTRAL EX	DIETHYL PHTHALATE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	DIMETHYL PHTHALATE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	2,4-DINITROTOLUENE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	2,6-DINITROTOLUENE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	DI-N-OCTYLPHTHALATE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	DIOXIN(2,3,7,8-TCDD)	ug/L	<	0	0
FTA-M12	19900214	BASE/NEUTRAL EX	FLUORANTHENE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	FLUORENE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	HEXACHLOROBENZENE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	HEXACHLOROBUTADIENE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	HEXACHLOROCYCLOPENTADIENE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	HEXACHLOROETHANE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	INDENO(1,2,3-c,d)PYRENE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	ISOPHTHOCENE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	NAPHTHALENE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	NITROBENZENE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-METHYLAMINE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-PHENYLAMINE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	N-NITROSO-DI-N-PROPYLAMINE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	PHENANTHRENE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	PYRENE	ug/L	<	10	10
FTA-M12	19900214	BASE/NEUTRAL EX	1,2,4-TRICHLOROBENZENE	ug/L	<	10	10
FTA-M12	19900214	ACID EXTRACT	4-CHLORO-3-METHYLPHENOL	ug/L	<	10	10
FTA-M12	19900214	ACID EXTRACT	2,4-DICHLOROPHENOL	ug/L	<	10	10
FTA-M12	19900214	ACID EXTRACT	2,4-DIMETHYLPHENOL	ug/L	<	10	10
FTA-M12	19900214	ACID EXTRACT	2,4-DINITROPHENOL	ug/L	<	50	50
FTA-M12	19900214	ACID EXTRACT	2-METHYL-4,6-DINITROPHENOL	ug/L	<	50	50
FTA-M12	19900214	ACID EXTRACT	2-NITROPHENOL	ug/L	<	10	10
FTA-M12	19900214	ACID EXTRACT	4-NITROPHENOL	ug/L	<	50	50
FTA-M12	19900214	ACID EXTRACT	PENTACHLOROPHENOL	ug/L	<	50	50
FTA-M12	19900214	ACID EXTRACT	PHENOL	ug/L	<	10	10
FTA-M12	19900214	ACID EXTRACT	2,4,5-TRICHLOROPHENOL	ug/L	<	10	10
FTA-M12	19900214	PESTICIDES	ALDRIN	ug/L	<	.04	.04
FTA-M12	19900214	PESTICIDES	a-BHC	ug/L	<	.03	.03
FTA-M12	19900214	PESTICIDES	b-BHC	ug/L	<	.06	.06
FTA-M12	19900214	PESTICIDES	g-BHC	ug/L	<	.09	.09
FTA-M12	19900214	PESTICIDES	d-BHC	ug/L	<	.04	.04
FTA-M12	19900214	PESTICIDES	CHLORDANE	ug/L	<	.14	.14
FTA-M12	19900214	PESTICIDES	4,4'-DDD	ug/L	<	.11	.11
FTA-M12	19900214	PESTICIDES	4,4'-DDE	ug/L	<	.04	.04
FTA-M12	19900214	PESTICIDES	4,4'-DDT	ug/L	<	.12	.12
FTA-M12	19900214	PESTICIDES	DIELDRIN	ug/L	<	.02	.02
FTA-M12	19900214	PESTICIDES	ENDOSULFAM I	ug/L	<	.14	.14
FTA-M12	19900214	PESTICIDES	ENDOSULFAM II	ug/L	<	.04	.04
FTA-M12	19900214	PESTICIDES	ENDOSULFAM SULFATE	ug/L	<	.66	.66
FTA-M12	19900214	PESTICIDES	ENGRIIN	ug/L	<	.06	.06
FTA-M12	19900214	PESTICIDES	ENDRIN ALDENYDE	ug/L	<	.23	.23
FTA-M12	19900214	PESTICIDES	HEPTACHLOR	ug/L	<	.03	.03
FTA-M12	19900214	PESTICIDES	HEPTACHLOR EPOXIDE	ug/L	<	.83	.83
FTA-M12	19900214	PESTICIDES	METHOXYCHLOR	ug/L	<	1.8	1.8
FTA-M12	19900214	PCB	PCB-1016	ug/L	<	.1	.1
FTA-M12	19900214	PCB	PCB-1221	ug/L	<	.1	.1
FTA-M12	19900214	PCB	PCB-1232	ug/L	<	.1	.1
FTA-M12	19900214	PCB	PCB-1242	ug/L	<	.1	.1
FTA-M12	19900214	PCB	PCB-1248	ug/L	<	.1	.1
FTA-M12	19900214	PCB	PCB-1254	ug/L	<	.1	.1

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M12	19900214	PCB	PCB-1260	ug/L	<	.1	.1
FTA-M12	19900214	PESTICIDES	TOXAPHENE	ug/L	<	2.4	2.4
FTA-M12	19900214	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L	<	41.9	50
FTA-M12	19900214	SURR COMP	TOLUENE-D8-S	% ug/L	<	45.9	50
FTA-M12	19900214	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L	<	46.3	50
FTA-M12	19900214	SURR COMP	NITROBENZENE-D5-S	% ug/L	<	21.9	50
FTA-M12	19900214	SURR COMP	2-FLUOROBIPHENYL-S	% ug/L	<	32.8	50
FTA-M12	19900214	SURR COMP	TERPHENYL-D14	% ug/L	<	30.4	50
FTA-M12	19900214	SURR COMP	PKENOL-D6-S	% ug/L	<	21	100
FTA-M12	19900214	SURR COMP	2-FLUOROPHENOL-S	% ug/L	<	32.8	100
FTA-M12	19900214	SURR COMP	2,4,6-TRIBROMOPHENOL-D4-S	% ug/L	<	69.5	100
FTA-M12	19900214	BASE/NEUTRAL EX	1,2-DIPHENYLHYDRAZINE	ug/L	<	10	10
B1040	19900215	PHYSICAL	pH	ph	<	5.79	0
B1040	19900215	PHYSICAL	CONDUCTIVITY	umhos	<	60	0
B1040	19900215	PHYSICAL	TEMPERATURE	deg C	<	10.3	0
B1040	19900215	METALS	ANTIMONY	ug/L	<	30	30
B1040	19900215	METALS	ARSENIC	ug/L	<	1	1
B1040	19900215	METALS	BERYLLIUM	ug/L	<	1	1
B1040	19900215	METALS	CADMIUM	ug/L	<	5	5
B1040	19900215	METALS	CARBONUM	ug/L	<	10	10
B1040	19900215	METALS	COPPER	ug/L	<	25.5	10
B1040	19900215	METALS	LEAD	ug/L	<	30	30
B1040	19900215	METALS	MERCURY	ug/L	<	.2	.2
B1040	19900215	METALS	NICKEL	ug/L	<	15	15
B1040	19900215	METALS	SELENIUM	ug/L	<	2	2
B1040	19900215	METALS	SILVER	ug/L	<	10	10
B1040	19900215	METALS	THALLIUM	ug/L	<	10	10
B1040	19900215	METALS	ZINC	ug/L	<	52.2	5
B1040	19900215	HERBICIDES ANAL	2,4-D	ug/L	<	50	50
B1040	19900215	HERBICIDES ANAL	2,4,5-T	ug/L	<	50	50
B1040	19900215	HERBICIDES ANAL	2,4,5-TP (SILVER)	ug/L	<	50	50
B1040	19900215	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
B1040	19900215	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
B1040	19900215	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
B1040	19900215	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
B1040	19900215	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
B1040	19900215	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
B1040	19900215	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
B1040	19900215	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
B1040	19900215	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
B1040	19900215	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
B1040	19900215	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
B1040	19900215	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
B1040	19900215	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
B1040	19900215	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
B1040	19900215	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
B1040	19900215	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
B1040	19900215	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
B1040	19900215	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
B1040	19900215	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
B1040	19900215	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
B1040	19900215	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
B1040	19900215	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
B1040	19900215	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
B1040	19900215	PURGEABLE COMPO	ETHYLENE	ug/L	<	5	5
B1040	19900215	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
B1040	19900215	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
B1040	19900215	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
B1040	19900215	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
B1040	19900215	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
B1040	19900215	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
B1040	19900215	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
B1040	19900215	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
B1040	19900215	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	ACENAPHTHENE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	ACENAPHTHYLENE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	ANTHRACENE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	BENZIDINE	ug/L	<	50	50
B1040	19900215	BASE/NEUTRAL EX	BENZO(a)ANTHRACENE	ug/L	<	10	10

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
B1040	19900215	BASE/NEUTRAL EX	BENZO(b)FLUORANTHENE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	BENZO(k)FLUORANTHENE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	BENZO(a)PYRENE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	BENZO(g,h,i)PERYLENE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	BUTYLBENZYLPHthalATE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	4-BROMOPHENYL PHENYL ETHER	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	BIS(2-CHLOROETHYL)ETHER	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	BIS(2-CHLOROETHOXY)METHANE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	BIS(2-ETHYLHEXYL)PHthalATE	ug/L	<	23	10
B1040	19900215	BASE/NEUTRAL EX	BIS(2-CHLOROISOPROPYL)ETHER	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	2-CHLORONAPHTHALENE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	4-CHLOROPHENYL PHENYL ETHER	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	CHRYSENE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	DIBENZO(a,h)ANTHRACENE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	DI-N-BUTYLPHthalATE	ug/L	<	10	10
B1040	19900215	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	10	10
B1040	19900215	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	10	10
B1040	19900215	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	3,3-DICHLOROBENZIDINE	ug/L	<	20	20
B1040	19900215	BASE/NEUTRAL EX	DIETHYL PHthalATE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	DIMETHYL PHthalATE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	2,4-DINITROTOLUENE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	2,6-DINITROTOLUENE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	DI-N-OCTYLPHthalATE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	DIOXIN(2,3,7,8-TCDD)	ug/L	<	0	0
B1040	19900215	BASE/NEUTRAL EX	FLUORANTHENE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	FLUORENE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	HEXACHLOROBENZENE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	HEXACHLOROBUTADIENE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	HEXACHLOROCYCLOPENTADIENE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	HEXACHLOROETHANE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	INDENO(1,2,3-c,d)PYRENE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	ISOPHORONE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	NAPHTHALENE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	NITROBENZENE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	N-NITROSO-DI-METHYLAMINE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	N-NITROSO-DI-PHENYLAMINE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	N-NITROSO-DI-N-PROPYLAMINE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	PHENANTHRENE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	PYRENE	ug/L	<	10	10
B1040	19900215	BASE/NEUTRAL EX	1,2,4-TRICHLOROBENZENE	ug/L	<	10	10
B1040	19900215	ACID EXTRACT	4-CHLORO-3-METHYLPHENOL	ug/L	<	10	10
B1040	19900215	ACID EXTRACT	2,4-DICHLOROPHENOL	ug/L	<	10	10
B1040	19900215	ACID EXTRACT	2,4-DIMETHYLPHENOL	ug/L	<	10	10
B1040	19900215	ACID EXTRACT	2,4-DINITROPHENOL	ug/L	<	50	50
B1040	19900215	ACID EXTRACT	2-METHYL-4,6-DINITROPHENOL	ug/L	<	50	50
B1040	19900215	ACID EXTRACT	2-NITROPHENOL	ug/L	<	10	10
B1040	19900215	ACID EXTRACT	4-NITROPHENOL	ug/L	<	50	50
B1040	19900215	ACID EXTRACT	PENTACHLOROPHENOL	ug/L	<	50	50
B1040	19900215	ACID EXTRACT	PHENOL	ug/L	<	10	10
B1040	19900215	ACID EXTRACT	2,4,5-TRICHLOROPHENOL	ug/L	<	10	10
B1040	19900215	PESTICIDES	ALDRIN	ug/L	<	.04	.04
B1040	19900215	PESTICIDES	a-BHC	ug/L	<	.03	.03
B1040	19900215	PESTICIDES	b-BHC	ug/L	<	.06	.06
B1040	19900215	PESTICIDES	g-BHC	ug/L	<	.09	.09
B1040	19900215	PESTICIDES	d-BHC	ug/L	<	.04	.04
B1040	19900215	PESTICIDES	CHLORDANE	ug/L	<	.14	.14
B1040	19900215	PESTICIDES	4,4'-DDE	ug/L	<	.11	.11
B1040	19900215	PESTICIDES	4,4'-DDE	ug/L	<	.04	.04
B1040	19900215	PESTICIDES	4,4'-DDT	ug/L	<	.12	.12
B1040	19900215	PESTICIDES	DIELDRIN	ug/L	<	.02	.02
B1040	19900215	PESTICIDES	ENDOSULFAM I	ug/L	<	.14	.14
B1040	19900215	PESTICIDES	ENDOSULFAM II	ug/L	<	.04	.04
B1040	19900215	PESTICIDES	ENDOSULFAM SULFATE	ug/L	<	.66	.66
B1040	19900215	PESTICIDES	ENDRIN	ug/L	<	.06	.06
B1040	19900215	PESTICIDES	ENDRIN ALCOHOL	ug/L	<	.23	.23
B1040	19900215	PESTICIDES	HEPTACHLOR	ug/L	<	.03	.03
B1040	19900215	PESTICIDES	HEPTACHLOR EPOXIDE	ug/L	<	.83	.83
B1040	19900215	PESTICIDES	METHOXYCHLOR	ug/L	<	1.8	1.8

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
B1040	19900215	PCB	PCB-1016	ug/L	<	.1	.1
B1040	19900215	PCB	PCB-1221	ug/L	<	.1	.1
B1040	19900215	PCB	PCB-1232	ug/L	<	.1	.1
B1040	19900215	PCB	PCB-1242	ug/L	<	.1	.1
B1040	19900215	PCB	PCB-1248	ug/L	<	.1	.1
B1040	19900215	PCB	PCB-1254	ug/L	<	.1	.1
B1040	19900215	PCB	PCB-1260	ug/L	<	.1	.1
B1040	19900215	PESTICIDES	TOXAPHENE	ug/L	<	2.4	2.4
B1040	19900215	TENTATIVELY COM	HEXADECANOIC	ug/L	ABN	10	0
B1040	19900215	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		42.8	50
B1040	19900215	SURR COMP	TOLUENE-D8-S	% ug/L		46.5	50
B1040	19900215	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		46.2	50
B1040	19900215	SURR COMP	NITROBENZENE-D5-S	% ug/L		18.9	50
B1040	19900215	SURR COMP	2-FLUOROBIPHENYL-S	% ug/L		22.7	50
B1040	19900215	SURR COMP	TERPHENYL-D14	% ug/L		24.9	50
B1040	19900215	SURR COMP	PHENOL-D6-S	% ug/L		18.8	100
B1040	19900215	SURR COMP	2-FLUOROPHENOL-S	% ug/L		45	100
B1040	19900215	SURR COMP	2,4,6-TRIBROMOPHENOL-D4-S	% ug/L		66.5	100
B1040	19900215	BASE/NEUTRAL EX	1,2-DIPHENYLHYDRAZINE	ug/L	<	10	10
B1041	19900215	PHYSICAL	pH	ph		5.68	0
B1041	19900215	PHYSICAL	CONDUCTIVITY	umhos		45	0
B1041	19900215	PHYSICAL	TEMPERATURE	deg C		11.2	0
B1041	19900215	METALS	ANTIMONY	ug/L	<	30	30
B1041	19900215	METALS	ARSENIC	ug/L	<	1	1
B1041	19900215	METALS	BERYLLIUM	ug/L	<	1	1
B1041	19900215	METALS	CADMIUM	ug/L	<	5	5
B1041	19900215	METALS	CHROMIUM	ug/L	<	10	10
B1041	19900215	METALS	COPPER	ug/L		145	10
B1041	19900215	METALS	LEAD	ug/L		79.2	30
B1041	19900215	METALS	MERCURY	ug/L	<	.2	.2
B1041	19900215	METALS	NICKEL	ug/L	<	15	15
B1041	19900215	METALS	SELENIUM	ug/L	<	2	2
B1041	19900215	METALS	SILVER	ug/L	<	10	10
B1041	19900215	METALS	THALLIUM	ug/L	<	10	10
B1041	19900215	METALS	ZINC	ug/L		116	5
B1041	19900215	HERBICIDES ANAL	2,4-D	ug/L	<	50	50
B1041	19900215	HERBICIDES ANAL	2,4,5-T	ug/L	<	50	50
B1041	19900215	HERBICIDES ANAL	2,4,5-TP (SILVEX)	ug/L	<	50	50
B1041	19900215	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
B1041	19900215	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
B1041	19900215	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
B1041	19900215	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
B1041	19900215	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
B1041	19900215	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
B1041	19900215	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
B1041	19900215	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
B1041	19900215	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
B1041	19900215	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
B1041	19900215	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
B1041	19900215	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
B1041	19900215	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
B1041	19900215	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
B1041	19900215	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
B1041	19900215	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
B1041	19900215	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
B1041	19900215	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
B1041	19900215	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
B1041	19900215	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
B1041	19900215	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
B1041	19900215	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
B1041	19900215	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
B1041	19900215	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
B1041	19900215	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
B1041	19900215	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
B1041	19900215	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
B1041	19900215	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
B1041	19900215	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
B1041	19900215	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
B1041	19900215	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
B1041	19900215	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	ACENAPHTHENE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	ACENAPHTHYLENE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	ANTHRACENE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	BENZIDINE	ug/L	<	50	50
B1041	19900215	BASE/NEUTRAL EX	BENZO(a)ANTHRACENE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	BENZO(b)FLUORANTHENE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	BENZO(k)FLUORANTHENE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	BENZO(a)PYRENE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	BENZO(g,h,i)PERYLENE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	BUTYLBENZYLPHthalate	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	4-BROMOPHENYL PHENYL ETHER	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	BIS(2-CHLOROETHYL)ETHER	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	BIS(2-CHLOROETHOXY)METHANE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	BIS(2-ETHYLHEXYL)PHthalate	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	BIS(2-CHLOROISOPROPYL)ETHER	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	2-CHLORONAPHTHALENE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	4-CHLOROPHENYL PHENYL ETHER	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	CHRYSENE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	DIBENZO(a,h)ANTHRACENE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	DI-N-BUTYLPHthalate	ug/L	<	10	10
B1041	19900215	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	10	10
B1041	19900215	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	10	10
B1041	19900215	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	3,3-DICHLOROBENZIDINE	ug/L	<	20	20
B1041	19900215	BASE/NEUTRAL EX	DIETHYL PHthalate	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	DIMETHYL PHthalate	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	2,4-DINITROTOLUENE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	2,6-DINITROTOLUENE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	DI-N-OCTYLPHthalate	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	DIOXIN(2,3,7,8-TCDD)	ug/L	<	0	0
B1041	19900215	BASE/NEUTRAL EX	FLUORANTHENE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	FLUORENE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	HEXACHLOROBENZENE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	HEXACHLOROBUTADIENE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	HEXACHLOROCYClopentadiene	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	HEXACHLOROETHANE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	INDENO(1,2,3-c,d)PYRENE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	ISOPHORONE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	NAPHTHALENE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	NITROBENZENE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	N-NITROSO-DI-METHYLAMINE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	N-NITROSO-DI-PHENYLAMINE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	N-NITROSO-DI-N-PROPYLAMINE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	PHENANTHRENE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	PYRENE	ug/L	<	10	10
B1041	19900215	BASE/NEUTRAL EX	1,2,4-TRICHLOROBENZENE	ug/L	<	10	10
B1041	19900215	ACID EXTRACT	4-CHLORO-3-METHYLPHENOL	ug/L	<	10	10
B1041	19900215	ACID EXTRACT	2,4-DICHLOROPHENOL	ug/L	<	10	10
B1041	19900215	ACID EXTRACT	2,4-DIMETHYLPHENOL	ug/L	<	10	10
B1041	19900215	ACID EXTRACT	2,4-DINITROPHENOL	ug/L	<	50	50
B1041	19900215	ACID EXTRACT	2-METHYL-4,6-DINITROPHENOL	ug/L	<	50	50
B1041	19900215	ACID EXTRACT	2-NITROPHENOL	ug/L	<	10	10
B1041	19900215	ACID EXTRACT	4-NITROPHENOL	ug/L	<	50	50
B1041	19900215	ACID EXTRACT	PENTACHLOROPHENOL	ug/L	<	50	50
B1041	19900215	ACID EXTRACT	PHENOL	ug/L	<	10	10
B1041	19900215	ACID EXTRACT	2,4,5-TRICHLOROPHENOL	ug/L	<	10	10
B1041	19900215	PESTICIDES	ALDRIN	ug/L	<	.04	.04
B1041	19900215	PESTICIDES	a-BHC	ug/L	<	.03	.03
B1041	19900215	PESTICIDES	b-BHC	ug/L	<	.06	.06
B1041	19900215	PESTICIDES	g-BHC	ug/L	<	.09	.09
B1041	19900215	PESTICIDES	d-BHC	ug/L	<	.04	.04
B1041	19900215	PESTICIDES	CHLORDANE	ug/L	<	.14	.14
B1041	19900215	PESTICIDES	4,4'-DDD	ug/L	<	.11	.11
B1041	19900215	PESTICIDES	4,4'-DDE	ug/L	<	.04	.04
B1041	19900215	PESTICIDES	4,4'-DDT	ug/L	<	.12	.12
B1041	19900215	PESTICIDES	DIELDRIN	ug/L	<	.02	.02
B1041	19900215	PESTICIDES	ENDOSULFAN I	ug/L	<	.14	.14

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
B1041	19900215	PESTICIDES	ENDOSULFAM II	ug/L	<	.04	.04
B1041	19900215	PESTICIDES	ENDOSULFAM SULFATE	ug/L	<	.66	.66
B1041	19900215	PESTICIDES	ALDRIN	ug/L	<	.06	.06
B1041	19900215	PESTICIDES	ENDRIN	ug/L	<	.23	.23
B1041	19900215	PESTICIDES	HEPTACHLOR	ug/L	<	.03	.03
B1041	19900215	PESTICIDES	HEPTACHLOR EPOXIDE	ug/L	<	.83	.83
B1041	19900215	PESTICIDES	METHOXYCHLOR	ug/L	<	1.8	1.8
B1041	19900215	PCB	PCB-1016	ug/L	<	.1	.1
B1041	19900215	PCB	PCB-1221	ug/L	<	.1	.1
B1041	19900215	PCB	PCB-1232	ug/L	<	.1	.1
B1041	19900215	PCB	PCB-1242	ug/L	<	.1	.1
B1041	19900215	PCB	PCB-1248	ug/L	<	.1	.1
B1041	19900215	PCB	PCB-1254	ug/L	<	.1	.1
B1041	19900215	PCB	PCB-1260	ug/L	<	.1	.1
B1041	19900215	PESTICIDES	TOXAPHENE	ug/L	<	2.4	2.4
B1041	19900215	TENTATIVELY COM	TERT-BUTYL PHENOL	ug/L	ABN	20	0
B1041	19900215	TENTATIVELY COM	UNIDENTIFIED ALKANE	ug/L	ABN	11	0
B1041	19900215	TENTATIVELY COM	HEXADECANOIC	ug/L	ABN	40	0
B1041	19900215	TENTATIVELY COM	DICHLORO TETRAFLUOROETHANE	ug/L	VOA	13	0
B1041	19900215	TENTATIVELY COM	UNIDENTIFIED ALKANE	ug/L	ABN	140	0
B1041	19900215	TENTATIVELY COM	DICHLORO TETRAFLUOROETHANE	ug/L	VOA	12	0
B1041	19900215	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		43.1	50
B1041	19900215	SURR COMP	TOLUENE-D8-S	% ug/L		47.1	50
B1041	19900215	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		45.2	50
B1041	19900215	SURR COMP	NITROBENZENE-D5-S	% ug/L		23.9	50
B1041	19900215	SURR COMP	2-FLUOROBIPHENYL-S	% ug/L		21.5	50
B1041	19900215	SURR COMP	TERPHENYL-D14	% ug/L		27.7	50
B1041	19900215	SURR COMP	PHENOL-D6-S	% ug/L		18.7	100
B1041	19900215	SURR COMP	2-FLUOROPHENOL-S	% ug/L		41.2	100
B1041	19900215	SURR COMP	2,4,6-TRIBROMOPHENOL-D4-S	% ug/L		67.7	100
B1041	19900215	BASE/NEUTRAL EX	1,2-DIPHENYLHYDRAZINE	ug/L	<	10	10
TRAIL BLAN	19900216	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
TRAIL BLAN	19900216	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
TRAIL BLAN	19900216	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
TRAIL BLAN	19900216	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
TRAIL BLAN	19900216	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
TRAIL BLAN	19900216	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
TRAIL BLAN	19900216	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
TRAIL BLAN	19900216	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
TRAIL BLAN	19900216	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
TRAIL BLAN	19900216	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
TRAIL BLAN	19900216	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
TRAIL BLAN	19900216	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
TRAIL BLAN	19900216	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
TRAIL BLAN	19900216	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
TRAIL BLAN	19900216	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
TRAIL BLAN	19900216	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
TRAIL BLAN	19900216	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
TRAIL BLAN	19900216	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
TRAIL BLAN	19900216	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
TRAIL BLAN	19900216	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
TRAIL BLAN	19900216	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
TRAIL BLAN	19900216	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
TRAIL BLAN	19900216	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
TRAIL BLAN	19900216	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
TRAIL BLAN	19900216	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
TRAIL BLAN	19900216	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
TRAIL BLAN	19900216	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
TRAIL BLAN	19900216	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
TRAIL BLAN	19900216	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	7.6	5
TRAIL BLAN	19900216	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
TRAIL BLAN	19900216	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
TRAIL BLAN	19900216	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
TRAIL BLAN	19900216	TENTATIVELY COM	DICHLORO TETRAFLUOROETHANE	ug/L	VOA	40	0
TRAIL BLAN	19900216	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		43	50
TRAIL BLAN	19900216	SURR COMP	TOLUENE-D8-S	% ug/L		46.4	50
TRAIL BLAN	19900216	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		44.8	50
BLANK 1	19900216	BASE/NEUTRAL EX	1,2-DIPHENYLHYDRAZINE	ug/L	<	10	10

APPENDIX N

GROUNDWATER CHEMICAL DATA FOR SAMPLE ROUND 2  
MAY 1990



WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M01	19900522	PHYSICAL	CONDUCTIVITY	umhos		98	0
FTA-M01	19900522	PHYSICAL	TEMPERATURE	deg C		11.5	0
FTA-M01	19900522	PP	NITRATES	mg/L		4.2	.2
FTA-M01	19900522	PHYSICAL	ph	ph		6.01	0
FTA-M01	19900522	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
FTA-M01	19900522	PP	SULFATE	mg/L		34.6	.5
FTA-M01	19900522	PP	CHLORIDE	mg/L		15.4	2
FTA-M01	19900522	PP	TDS	mg/L		94	10
FTA-M01	19900522	METALS	ANTIMONY	ug/L	<	30	30
FTA-M01	19900522	METALS	ARSENIC	ug/L	<	1	1
FTA-M01	19900522	METALS	BARIUM	ug/L		23.5	5
FTA-M01	19900522	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M01	19900522	METALS	CADMIUM	ug/L	<	5	5
FTA-M01	19900522	METALS	CALCIUM	mg/L		8.88	.01
FTA-M01	19900522	METALS	CHROMIUM	ug/L	<	10	10
FTA-M01	19900522	METALS	COPPER	ug/L	<	10	10
FTA-M01	19900522	METALS	IRON	ug/L		560	10
FTA-M01	19900522	METALS	LEAD	ug/L	<	20	20
FTA-M01	19900522	METALS	MAGNESIUM	ug/L		2470	30
FTA-M01	19900522	METALS	MANGANESE	ug/L		15.5	10
FTA-M01	19900522	METALS	MERCURY	ug/L	<	.2	.2
FTA-M01	19900522	METALS	NICKEL	ug/L	<	15	15
FTA-M01	19900522	METALS	POTASSIUM	mg/L		.896	.5
FTA-M01	19900522	METALS	SELENIUM	ug/L		1.6	1
FTA-M01	19900522	METALS	SILVER	ug/L	<	10	10
FTA-M01	19900522	METALS	SILICA	mg/L		1.08	.1
FTA-M01	19900522	METALS	SODIUM	mg/L		8.46	.03
FTA-M01	19900522	METALS	THALLIUM	ug/L	<	30	30
FTA-M01	19900522	METALS	ZINC	ug/L	<	10	10
FTA-M01	19900522	PP	AMMONIA NITROGEN	mg/L		.3	.01
FTA-M01	19900522	PP	OIL & GREASE	mg/L		4	1
FTA-M01	19900522	PP	TOTAL PHENOLS	ug/L	<	5	5
FTA-M01	19900522	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M01	19900522	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M01	19900522	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M01	19900522	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M01	19900522	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M01	19900522	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M01	19900522	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M01	19900522	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M01	19900522	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M01	19900522	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M01	19900522	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M01	19900522	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M01	19900522	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
FTA-M01	19900522	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M01	19900522	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M01	19900522	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M01	19900522	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M01	19900522	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M01	19900522	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
FTA-M01	19900522	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M01	19900522	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M01	19900522	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M01	19900522	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M01	19900522	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M01	19900522	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M01	19900522	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M01	19900522	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
FTA-M01	19900522	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M01	19900522	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
FTA-M01	19900522	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M01	19900522	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
FTA-M01	19900522	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M01	19900522	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M01	19900522	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		56.8	50
FTA-M01	19900522	SURR COMP	TOLUENE-D8-S	% ug/L		46.3	50
FTA-M01	19900522	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		52.8	50
FTA-M02	19900522	PHYSICAL	CONDUCTIVITY	umhos		45	0

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M02	19900522	PHYSICAL	TEMPERATURE	deg C		12.4	0
FTA-M02	19900522	PP	NITRATES	mg/L		.28	.2
FTA-M02	19900522	PHYSICAL	PH	ph		4.74	0
FTA-M02	19900522	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
FTA-M02	19900522		SULFATE	mg/L		15.9	.5
FTA-M02	19900522		CHLORIDE	mg/L	<	2	2
FTA-M02	19900522	PP	TDS	mg/L		54	10
FTA-M02	19900522	METALS	ANTIMONY	ug/L	<	30	30
FTA-M02	19900522	METALS	ANTIMONY	ug/L	<	30	30
FTA-M02	19900522	METALS	ARSENIC	ug/L	<	1	1
FTA-M02	19900522	METALS	BARIUM	ug/L		34	5
FTA-M02	19900522	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M02	19900522	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M02	19900522	METALS	CADMIUM	ug/L	<	5	5
FTA-M02	19900522	METALS	CALCIUM	mg/L		2.467	.01
FTA-M02	19900522	METALS	CHROMIUM	ug/L	<	10	10
FTA-M02	19900522	METALS	COPPER	ug/L		11.2	10
FTA-M02	19900522	METALS	IRON	ug/L		374	10
FTA-M02	19900522	METALS	LEAD	ug/L	<	20	20
FTA-M02	19900522	METALS	MAGNESIUM	ug/L		2631	30
FTA-M02	19900522	METALS	MANGANESE	ug/L		43	10
FTA-M02	19900522	METALS	MERCURY	ug/L	<	.2	.2
FTA-M02	19900522	METALS	NICKEL	ug/L	<	15	15
FTA-M02	19900522	METALS	POTASSIUM	mg/L		.518	.5
FTA-M02	19900522	METALS	SELENIUM	ug/L		1.7	1
FTA-M02	19900522	METALS	SILVER	ug/L	<	10	10
FTA-M02	19900522	METALS	SILICA	mg/L		1.46	.1
FTA-M02	19900522	METALS	SILICA	mg/L		1.49	.1
FTA-M02	19900522	METALS	SODIUM	mg/L		2.04	.03
FTA-M02	19900522	METALS	THALLIUM	ug/L	<	30	30
FTA-M02	19900522	METALS	THALLIUM	ug/L	<	30	30
FTA-M02	19900522	METALS	ZINC	ug/L		41.8	10
FTA-M02	19900522	PP	AMMONIA NITROGEN	mg/L		.27	.01
FTA-M02	19900522	PP	OIL & GREASE	mg/L		3	1
FTA-M02	19900522	PP	TOTAL PHENOLS	ug/L	<	5	5
FTA-M02	19900522	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M02	19900522	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M02	19900522	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M02	19900522	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M02	19900522	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M02	19900522	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M02	19900522	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M02	19900522	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	5	5
FTA-M02	19900522	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M02	19900522	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M02	19900522	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M02	19900522	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M02	19900522	PURGEABLE COMPO	DICHLOROBROMOMETHANE		<	5	5
FTA-M02	19900522	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M02	19900522	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M02	19900522	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M02	19900522	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M02	19900522	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M02	19900522	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
FTA-M02	19900522	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M02	19900522	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M02	19900522	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M02	19900522	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M02	19900522	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M02	19900522	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M02	19900522	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M02	19900522	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
FTA-M02	19900522	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M02	19900522	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
FTA-M02	19900522	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M02	19900522	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
FTA-M02	19900522	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M02	19900522	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M02	19900522	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		53.6	50

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M02	19900522	SURR COMP	TOLUENE-D8-S	% ug/L		44.8	50
FTA-M02	19900522	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		51	50
FTA-M04	19900522	PHYSICAL	CONDUCTIVITY	umhos		80	0
FTA-M04	19900522	PHYSICAL	TEMPERATURE	deg C		13.4	0
FTA-M04	19900522	PP	NITRATES	mg/L		1.7	.2
FTA-M04	19900522	PHYSICAL	pH	ph		5.99	0
FTA-M04	19900522	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
FTA-M04	19900522	PP	SULFATE	mg/L		6.37	.5
FTA-M04	19900522	PP	CHLORIDE	mg/L		5.84	2
FTA-M04	19900522	PP	TDS	mg/L		76	10
FTA-M04	19900522	METALS	ANTIMONY	ug/L	<	30	30
FTA-M04	19900522	METALS	ARSENIC	ug/L	<	1	1
FTA-M04	19900522	METALS	BARIUM	ug/L		54.5	5
FTA-M04	19900522	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M04	19900522	METALS	CADMIUM	ug/L	<	5	5
FTA-M04	19900522	METALS	CALCIUM	mg/L		2.9	.01
FTA-M04	19900522	METALS	CHROMIUM	ug/L	<	10	10
FTA-M04	19900522	METALS	COPPER	ug/L		12.2	10
FTA-M04	19900522	METALS	IRON	ug/L		224	10
FTA-M04	19900522	METALS	LEAD	ug/L	<	20	20
FTA-M04	19900522	METALS	MAGNESIUM	ug/L		2320	30
FTA-M04	19900522	METALS	MANGANESE	ug/L		14	10
FTA-M04	19900522	METALS	MERCURY	ug/L	<	.2	.2
FTA-M04	19900522	METALS	NICKEL	ug/L	<	15	15
FTA-M04	19900522	METALS	POTASSIUM	mg/L		4.48	.5
FTA-M04	19900522	METALS	SELENIUM	ug/L		1.1	1
FTA-M04	19900522	METALS	SILVER	ug/L	<	10	10
FTA-M04	19900522	METALS	SILICA	mg/L		2.054	.1
FTA-M04	19900522	METALS	SODIUM	mg/L		3.484	.03
FTA-M04	19900522	METALS	THALLIUM	ug/L	<	30	30
FTA-M04	19900522	METALS	ZINC	ug/L		18.5	10
FTA-M04	19900522	PP	AMMONIA NITROGEN	mg/L		31	.01
FTA-M04	19900522	PP	OIL & GREASE	mg/L		4	1
FTA-M04	19900522	PP	TOTAL PHENOLS	ug/L	<	5	5
FTA-M04	19900522	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M04	19900522	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M04	19900522	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M04	19900522	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M04	19900522	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M04	19900522	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M04	19900522	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M04	19900522	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M04	19900522	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M04	19900522	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M04	19900522	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M04	19900522	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M04	19900522	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
FTA-M04	19900522	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M04	19900522	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M04	19900522	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M04	19900522	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M04	19900522	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M04	19900522	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
FTA-M04	19900522	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M04	19900522	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M04	19900522	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M04	19900522	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M04	19900522	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M04	19900522	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M04	19900522	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M04	19900522	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
FTA-M04	19900522	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M04	19900522	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
FTA-M04	19900522	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M04	19900522	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
FTA-M04	19900522	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M04	19900522	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M04	19900522	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		43	50
FTA-M04	19900522	SURR COMP	TOLUENE-D8-S	% ug/L		48.7	50

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M04	19900522	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L	45.6	50	
FTA-M05	19900522	PHYSICAL	CONDUCTIVITY	umhos	45	0	
FTA-M05	19900522	PHYSICAL	TEMPERATURE	deg C	14.8	0	
FTA-M05	19900522	PP	NITRATES	mg/L	1	.2	
FTA-M05	19900522	PHYSICAL	pH	ph	4.97	0	
FTA-M05	19900522	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
FTA-M05	19900522	PP	SULFATE	mg/L	2.24	.5	
FTA-M05	19900522	PP	CHLORIDE	mg/L	6.65	2	
FTA-M05	19900522	PP	TDS	mg/L	46	10	
FTA-M05	19900522	METALS	ANTIMONY	ug/L	<	30	30
FTA-M05	19900522	METALS	ARSENIC	ug/L	<	1	1
FTA-M05	19900522	METALS	BARIUM	ug/L	32.2	5	
FTA-M05	19900522	METALS	BARIUM	ug/L	30.8	5	
FTA-M05	19900522	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M05	19900522	METALS	CADMIUM	ug/L	<	5	5
FTA-M05	19900522	METALS	CADMIUM	ug/L	<	5	5
FTA-M05	19900522	METALS	CALCIUM	mg/L	1.847	.01	
FTA-M05	19900522	METALS	CHROMIUM	ug/L	<	10	10
FTA-M05	19900522	METALS	CHROMIUM	ug/L	<	10	10
FTA-M05	19900522	METALS	COPPER	ug/L	<	10	10
FTA-M05	19900522	METALS	COPPER	ug/L	<	10	10
FTA-M05	19900522	METALS	IRON	ug/L	313	10	
FTA-M05	19900522	METALS	IRON	ug/L	311	10	
FTA-M05	19900522	METALS	LEAD	ug/L	<	20	20
FTA-M05	19900522	METALS	LEAD	ug/L	<	20	20
FTA-M05	19900522	METALS	MAGNESIUM	ug/L	1490	30	
FTA-M05	19900522	METALS	MANGANESE	ug/L	64.8	10	
FTA-M05	19900522	METALS	MANGANESE	ug/L	66.2	10	
FTA-M05	19900522	METALS	MERCURY	ug/L	<	.2	.2
FTA-M05	19900522	METALS	NICKEL	ug/L	19.8	15	
FTA-M05	19900522	METALS	NICKEL	ug/L	19	15	
FTA-M05	19900522	METALS	POTASSIUM	mg/L	4.48	.5	
FTA-M05	19900522	METALS	SELENIUM	ug/L	<	1	1
FTA-M05	19900522	METALS	SILVER	ug/L	<	10	10
FTA-M05	19900522	METALS	SILVER	ug/L	<	10	10
FTA-M05	19900522	METALS	SILICA	mg/L	2.17	.1	
FTA-M05	19900522	METALS	SODIUM	mg/L	4.23	.03	
FTA-M05	19900522	METALS	THALLIUM	ug/L	<	30	30
FTA-M05	19900522	METALS	ZINC	ug/L	30.5	10	
FTA-M05	19900522	METALS	ZINC	ug/L	30.2	10	
FTA-M05	19900522	PP	AMMONIA NITROGEN	mg/L	.3	.01	
FTA-M05	19900522	PP	OIL & GREASE	mg/L	5	1	
FTA-M05	19900522	PP	TOTAL PHENOLS	ug/L	<	5	5
FTA-M05	19900522	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M05	19900522	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M05	19900522	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M05	19900522	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M05	19900522	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M05	19900522	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M05	19900522	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M05	19900522	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M05	19900522	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M05	19900522	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M05	19900522	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M05	19900522	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M05	19900522	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
FTA-M05	19900522	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M05	19900522	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M05	19900522	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M05	19900522	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M05	19900522	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M05	19900522	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
FTA-M05	19900522	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M05	19900522	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M05	19900522	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M05	19900522	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M05	19900522	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M05	19900522	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M05	19900522	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M05	19900522	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
FTA-M05	19900522	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M05	19900522	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
FTA-M05	19900522	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M05	19900522	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
FTA-M05	19900522	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M05	19900522	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M05	19900522	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L	55.9	50	50
FTA-M05	19900522	SURR COMP	TOLUENE-D8-S	% ug/L	44.4	50	50
FTA-M05	19900522	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L	56	50	50
FTA-M06	19900522	PHYSICAL	CONDUCTIVITY	umhos	40	0	0
FTA-M06	19900522	PHYSICAL	TEMPERATURE	deg C	13.7	0	0
FTA-M06	19900522	PP	NITRATES	mg/L	2.36	.2	.2
FTA-M06	19900522	PHYSICAL	PH	ph	5.01	0	0
FTA-M06	19900522	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
FTA-M06	19900522	PP	SULFATE	mg/L	6.37	.5	.5
FTA-M06	19900522	PP	CHLORIDE	mg/L	11.1	2	2
FTA-M06	19900522	PP	TDS	mg/L	76	10	10
FTA-M06	19900522	PP	TDS	mg/L	86	10	10
FTA-M06	19900522	METALS	ANTIMONY	ug/L	<	30	30
FTA-M06	19900522	METALS	ARSENIC	ug/L	<	1	1
FTA-M06	19900522	METALS	BARIUM	ug/L	46.8	5	5
FTA-M06	19900522	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M06	19900522	METALS	CADMIUM	ug/L	<	5	5
FTA-M06	19900522	METALS	CALCIUM	mg/L	3.13	.01	.01
FTA-M06	19900522	METALS	CHROMIUM	ug/L	<	10	10
FTA-M06	19900522	METALS	COPPER	ug/L	12.7	10	10
FTA-M06	19900522	METALS	IRON	ug/L	969	10	10
FTA-M06	19900522	METALS	LEAD	ug/L	<	20	20
FTA-M06	19900522	METALS	MAGNESIUM	ug/L	2620	30	30
FTA-M06	19900522	METALS	MANGANESE	ug/L	213	10	10
FTA-M06	19900522	METALS	MERCURY	ug/L	<	.2	.2
FTA-M06	19900522	METALS	NICKEL	ug/L	68	15	15
FTA-M06	19900522	METALS	POTASSIUM	mg/L	1.25	.5	.5
FTA-M06	19900522	METALS	SELENIUM	ug/L	1	1	1
FTA-M06	19900522	METALS	SILVER	ug/L	<	10	10
FTA-M06	19900522	METALS	SILICA	mg/L	2.34	.1	.1
FTA-M06	19900522	METALS	SODIUM	mg/L	4.78	.03	.03
FTA-M06	19900522	METALS	THALLIUM	ug/L	<	30	30
FTA-M06	19900522	METALS	ZINC	ug/L	137	10	10
FTA-M06	19900522	PP	AMMONIA NITROGEN	mg/L	.1	.01	.01
FTA-M06	19900522	PP	OIL & GREASE	mg/L	6	1	1
FTA-M06	19900522	PP	TOTAL PHENOLS	ug/L	<	5	5
FTA-M06	19900522	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M06	19900522	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M06	19900522	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M06	19900522	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M06	19900522	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M06	19900522	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M06	19900522	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M06	19900522	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M06	19900522	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M06	19900522	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M06	19900522	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M06	19900522	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M06	19900522	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
FTA-M06	19900522	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M06	19900522	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M06	19900522	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M06	19900522	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M06	19900522	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M06	19900522	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
FTA-M06	19900522	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M06	19900522	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M06	19900522	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M06	19900522	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M06	19900522	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M06	19900522	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M06	19900522	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M06	19900522	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
FTA-M06	19900522	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M06	19900522	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	9.7	5
FTA-M06	19900522	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M06	19900522	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	170	5
FTA-M06	19900522	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M06	19900522	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M06	19900522	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L	<	54.5	50
FTA-M06	19900522	SURR COMP	TOLUENE-D8-S	% ug/L	<	45.8	50
FTA-M06	19900522	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L	<	51.9	50
FTA-M07	19900522	PHYSICAL	CONDUCTIVITY	umhos	<	30	0
FTA-M07	19900522	PHYSICAL	TEMPERATURE	deg C	<	13.1	0
FTA-M07	19900522	PP	NITRATES	mg/L	<	1.4	.2
FTA-M07	19900522	PHYSICAL	pH	ph	<	5.15	0
FTA-M07	19900522	PP	ORTHOPHOSPHATE	mg/L	<	.32	.2
FTA-M07	19900522	PP	SULFATE	mg/L	<	1.65	.5
FTA-M07	19900522	PP	CHLORIDE	mg/L	<	4.85	2
FTA-M07	19900522	PP	TDS	mg/L	<	62	10
FTA-M07	19900522	METALS	ANTIMONY	ug/L	<	30	30
FTA-M07	19900522	METALS	ARSENIC	ug/L	<	1	1
FTA-M07	19900522	METALS	BARIUM	ug/L	<	28.2	5
FTA-M07	19900522	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M07	19900522	METALS	CADMIUM	ug/L	<	5	5
FTA-M07	19900522	METALS	CALCIUM	mg/L	<	1.54	.01
FTA-M07	19900522	METALS	CHROMIUM	ug/L	<	10	10
FTA-M07	19900522	METALS	COPPER	ug/L	<	18	10
FTA-M07	19900522	METALS	IRON	ug/L	<	384	10
FTA-M07	19900522	METALS	LEAD	ug/L	<	20	20
FTA-M07	19900522	METALS	MAGNESIUM	ug/L	<	1430	30
FTA-M07	19900522	METALS	MANGANESE	ug/L	<	416	10
FTA-M07	19900522	METALS	MERCURY	ug/L	<	.2	.2
FTA-M07	19900522	METALS	NICKEL	ug/L	<	49.5	15
FTA-M07	19900522	METALS	POTASSIUM	mg/L	<	.671	.5
FTA-M07	19900522	METALS	SELENIUM	ug/L	<	1	1
FTA-M07	19900522	METALS	SILVER	ug/L	<	10	10
FTA-M07	19900522	METALS	SILICA	mg/L	<	2.39	.1
FTA-M07	19900522	METALS	SODIUM	mg/L	<	4.52	.03
FTA-M07	19900522	METALS	THALLIUM	ug/L	<	30	30
FTA-M07	19900522	METALS	ZINC	ug/L	<	36.2	10
FTA-M07	19900522	PP	AMMONIA NITROGEN	mg/L	<	.11	.01
FTA-M07	19900522	PP	OIL & GREASE	mg/L	<	4	1
FTA-M07	19900522	PP	TOTAL PHENOLS	ug/L	<	5	5
FTA-M07	19900522	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M07	19900522	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M07	19900522	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M07	19900522	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M07	19900522	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M07	19900522	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M07	19900522	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M07	19900522	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M07	19900522	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M07	19900522	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M07	19900522	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M07	19900522	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M07	19900522	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
FTA-M07	19900522	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M07	19900522	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M07	19900522	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M07	19900522	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	11.9	5
FTA-M07	19900522	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M07	19900522	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	31.6	5
FTA-M07	19900522	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M07	19900522	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M07	19900522	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M07	19900522	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M07	19900522	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M07	19900522	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M07	19900522	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M07	19900522	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	44	5

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M07	19900522	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M07	19900522	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L		119	5
FTA-M07	19900522	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M07	19900522	PURGEABLE COMPO	TRICHLOROETHENE	ug/L		219	5
FTA-M07	19900522	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M07	19900522	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M07	19900522	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		53.7	50
FTA-M07	19900522	SURR COMP	TOLUENE-D8-S	% ug/L		47.4	50
FTA-M07	19900522	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		44.3	50
FTA-M08	19900522	PHYSICAL	CONDUCTIVITY	umhos		53	0
FTA-M08	19900522	PHYSICAL	TEMPERATURE	deg C		16.1	0
FTA-M08	19900522	PP	NITRATES	mg/L		2.1	.2
FTA-M08	19900522	PHYSICAL	pH	ph		4.75	0
FTA-M08	19900522	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
FTA-M08	19900522	PP	SULFATE	mg/L		5.28	.5
FTA-M08	19900522	PP	CHLORIDE	mg/L		8.84	.2
FTA-M08	19900522	PP	TDS	mg/L		78	10
FTA-M08	19900522	METALS	ANTIMONY	ug/L	<	30	30
FTA-M08	19900522	METALS	ARSENIC	ug/L	<	1	1
FTA-M08	19900522	METALS	BARIUM	ug/L		48.5	5
FTA-M08	19900522	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M08	19900522	METALS	CADMIUM	ug/L	<	5	5
FTA-M08	19900522	METALS	CALCIUM	mg/L		2.95	.01
FTA-M08	19900522	METALS	CHROMIUM	ug/L	<	10	10
FTA-M08	19900522	METALS	COPPER	ug/L		16	10
FTA-M08	19900522	METALS	IRON	ug/L		630	10
FTA-M08	19900522	METALS	LEAD	ug/L	<	20	20
FTA-M08	19900522	METALS	MAGNESIUM	ug/L		2350	30
FTA-M08	19900522	METALS	MANGANESE	ug/L		113	10
FTA-M08	19900522	METALS	MERCURY	ug/L	<	.2	.2
FTA-M08	19900522	METALS	NICKEL	ug/L		17.8	15
FTA-M08	19900522	METALS	POTASSIUM	mg/L		1.08	.5
FTA-M08	19900522	METALS	SELENIUM	ug/L		1.1	1
FTA-M08	19900522	METALS	SILVER	ug/L	<	10	10
FTA-M08	19900522	METALS	SILICA	mg/L		2.12	.1
FTA-M08	19900522	METALS	SODIUM	mg/L		5.29	.03
FTA-M08	19900522	METALS	THALLIUM	ug/L	<	30	30
FTA-M08	19900522	METALS	ZINC	ug/L		56	10
FTA-M08	19900522	PP	AMMONIA NITROGEN	mg/L		.11	.01
FTA-M08	19900522	PP	OIL & GREASE	mg/L		5	1
FTA-M08	19900522	PP	TOTAL PHENOLS	ug/L	<	5	5
FTA-M08	19900522	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M08	19900522	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M08	19900522	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M08	19900522	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M08	19900522	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M08	19900522	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M08	19900522	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M08	19900522	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M08	19900522	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M08	19900522	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M08	19900522	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M08	19900522	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M08	19900522	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
FTA-M08	19900522	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M08	19900522	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M08	19900522	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M08	19900522	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L		15	5
FTA-M08	19900522	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L		6.4	5
FTA-M08	19900522	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L		8.6	5
FTA-M08	19900522	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M08	19900522	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M08	19900522	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M08	19900522	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M08	19900522	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M08	19900522	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M08	19900522	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M08	19900522	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L		16.8	5
FTA-M08	19900522	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M08	19900522	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L		86.2	5
FTA-M08	19900522	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M08	19900522	PURGEABLE COMPO	TRICHLOROETHENE	ug/L		21.8	5
FTA-M08	19900522	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M08	19900522	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M08	19900522	TENTATIVELY COM	CIS-1,2-DICHLOROETHENE	ug/L	VOA	17	0
FTA-M08	19900522	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		51.2	50
FTA-M08	19900522	SURR COMP	TOLUENE-D8-S	% ug/L		46.7	50
FTA-M08	19900522	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		45.1	50
FTA-M09	19900522	PHYSICAL	CONDUCTIVITY	umhos		150	0
FTA-M09	19900522	PHYSICAL	TEMPERATURE	deg C		18.4	0
FTA-M09	19900522	PP	NITRATES	mg/L		1.6	.2
FTA-M09	19900522	PHYSICAL	pH	ph		4.69	0
FTA-M09	19900522	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
FTA-M09	19900522	PP	SULFATE	mg/L		4.67	.5
FTA-M09	19900522	PP	CHLORIDE	mg/L		37.9	2
FTA-M09	19900522	PP	TDS	mg/L		120	10
FTA-M09	19900522	METALS	ANTIMONY	ug/L	<	30	30
FTA-M09	19900522	METALS	ARSENIC	ug/L	<	1	1
FTA-M09	19900522	METALS	BARIUM	ug/L		73.5	5
FTA-M09	19900522	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M09	19900522	METALS	CADMIUM	ug/L	<	5	5
FTA-M09	19900522	METALS	CALCIUM	mg/L		4.6	.01
FTA-M09	19900522	METALS	CHROMIUM	ug/L	<	10	10
FTA-M09	19900522	METALS	COPPER	ug/L	<	10	10
FTA-M09	19900522	METALS	IRON	ug/L		371	10
FTA-M09	19900522	METALS	LEAD	ug/L	<	20	20
FTA-M09	19900522	METALS	MAGNESIUM	ug/L		3580	30
FTA-M09	19900522	METALS	MANGANESE	ug/L		192	10
FTA-M09	19900522	METALS	MERCURY	ug/L	<	.2	.2
FTA-M09	19900522	METALS	NICKEL	ug/L		32.2	15
FTA-M09	19900522	METALS	POTASSIUM	mg/L		1.3	.5
FTA-M09	19900522	METALS	SELENIUM	ug/L	<	1	1
FTA-M09	19900522	METALS	SILVER	ug/L	<	10	10
FTA-M09	19900522	METALS	SILICA	mg/L		1.74	.1
FTA-M09	19900522	METALS	SODIUM	mg/L		10.8	.03
FTA-M09	19900522	METALS	THALLIUM	ug/L	<	30	30
FTA-M09	19900522	METALS	ZINC	ug/L		23	10
FTA-M09	19900522	PP	AMMONIA NITROGEN	mg/L		.1	.01
FTA-M09	19900522	PP	OIL & GREASE	mg/L		5	1
FTA-M09	19900522	PP	TOTAL PHENOLS	ug/L	<	5	5
FTA-M09	19900522	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M09	19900522	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M09	19900522	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M09	19900522	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M09	19900522	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M09	19900522	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M09	19900522	PURGEABLE COMPO	CHLOROETHENE	ug/L	<	5	5
FTA-M09	19900522	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M09	19900522	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M09	19900522	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M09	19900522	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M09	19900522	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M09	19900522	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
FTA-M09	19900522	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M09	19900522	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M09	19900522	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M09	19900522	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M09	19900522	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M09	19900522	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
FTA-M09	19900522	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M09	19900522	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M09	19900522	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M09	19900522	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M09	19900522	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M09	19900522	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M09	19900522	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M09	19900522	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
FTA-M09	19900522	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5



WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M09	19900522	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L		5.8	5
FTA-M09	19900522	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M09	19900522	PURGEABLE COMPO	TRICHLOROETHENE	ug/L		13.5	5
FTA-M09	19900522	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M09	19900522	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M09	19900522	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		50.6	50
FTA-M09	19900522	SURR COMP	TOLUENE-D8-S	% ug/L		45.4	50
FTA-M09	19900522	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		55.6	50
FTA-M10	19900522	PHYSICAL	CONDUCTIVITY	umhos		32	0
FTA-M10	19900522	PHYSICAL	TEMPERATURE	deg C		13.8	0
FTA-M10	19900522	PP	NITRATES	mg/L		.57	.2
FTA-M10	19900522	PHYSICAL	PH	ph		5.05	0
FTA-M10	19900522	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
FTA-M10	19900522	PP	SULFATE	mg/L	<	.5	.5
FTA-M10	19900522	PP	CHLORIDE	mg/L		4.9	2
FTA-M10	19900522	PP	TDS	mg/L		110	10
FTA-M10	19900522	METALS	ANTIMONY	ug/L	<	30	30
FTA-M10	19900522	METALS	ARSENIC	ug/L	<	1	1
FTA-M10	19900522	METALS	BARIUM	ug/L		24.2	5
FTA-M10	19900522	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M10	19900522	METALS	CADMIUM	ug/L	<	5	5
FTA-M10	19900522	METALS	CALCIUM	mg/L		1.54	.01
FTA-M10	19900522	METALS	CALCIUM	mg/L		1.54	.01
FTA-M10	19900522	METALS	CHROMIUM	ug/L	<	10	10
FTA-M10	19900522	METALS	COPPER	ug/L		12.2	10
FTA-M10	19900522	METALS	IRON	ug/L		102	10
FTA-M10	19900522	METALS	LEAD	ug/L	<	20	20
FTA-M10	19900522	METALS	MAGNESIUM	ug/L		740	30
FTA-M10	19900522	METALS	MAGNESIUM	ug/L		736	30
FTA-M10	19900522	METALS	MANGANESE	ug/L		26.5	10
FTA-M10	19900522	METALS	MERCURY	ug/L	<	.2	.2
FTA-M10	19900522	METALS	NICKEL	ug/L	<	15	15
FTA-M10	19900522	METALS	POTASSIUM	mg/L		.585	.5
FTA-M10	19900522	METALS	POTASSIUM	mg/L		.576	.5
FTA-M10	19900522	METALS	SELENIUM	ug/L	<	1	1
FTA-M10	19900522	METALS	SILVER	ug/L	<	10	10
FTA-M10	19900522	METALS	SILICA	mg/L		2.16	.1
FTA-M10	19900522	METALS	SODIUM	mg/L		4.2	.03
FTA-M10	19900522	METALS	SODIUM	mg/L		4.16	.03
FTA-M10	19900522	METALS	THALLIUM	ug/L	<	30	30
FTA-M10	19900522	METALS	ZINC	ug/L		21.2	10
FTA-M10	19900522	PP	AMMONIA NITROGEN	mg/L		.13	.01
FTA-M10	19900522	PP	OIL & GREASE	mg/L		7	1
FTA-M10	19900522	PP	TOTAL PHENOLS	ug/L	<	5	5
FTA-M10	19900522	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M10	19900522	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M10	19900522	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M10	19900522	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M10	19900522	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M10	19900522	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M10	19900522	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M10	19900522	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M10	19900522	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M10	19900522	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M10	19900522	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M10	19900522	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M10	19900522	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
FTA-M10	19900522	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M10	19900522	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M10	19900522	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M10	19900522	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M10	19900522	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M10	19900522	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
FTA-M10	19900522	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M10	19900522	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M10	19900522	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M10	19900522	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M10	19900522	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M10	19900522	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M10	19900522	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M10	19900522	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
FTA-M10	19900522	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M10	19900522	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
FTA-M10	19900522	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M10	19900522	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
FTA-M10	19900522	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M10	19900522	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M10	19900522	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		55.8	50
FTA-M10	19900522	SURR COMP	TOLUENE-D8-S	% ug/L		44.3	50
FTA-M10	19900522	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		54.8	50
FTA-M11	19900522	PHYSICAL	CONDUCTIVITY	umhos		60	0
FTA-M11	19900522	PHYSICAL	TEMPERATURE	deg C		13.8	0
FTA-M11	19900522	PP	NITRATES	mg/L		1.92	.2
FTA-M11	19900522	PHYSICAL	pH	ph		4.81	0
FTA-M11	19900522	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
FTA-M11	19900522	PP	SULFATE	mg/L		16.6	.5
FTA-M11	19900522	PP	CHLORIDE	mg/L		2.64	2
FTA-M11	19900522	PP	TDS	mg/L		60	10
FTA-M11	19900522	METALS	ANTIMONY	ug/L	<	30	30
FTA-M11	19900522	METALS	ARSENIC	ug/L	<	1	1
FTA-M11	19900522	METALS	BARIUM	ug/L		39.2	5
FTA-M11	19900522	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M11	19900522	METALS	CADMIUM	ug/L	<	5	5
FTA-M11	19900522	METALS	CALCIUM	mg/L		3.29	.01
FTA-M11	19900522	METALS	CHROMIUM	ug/L	<	10	10
FTA-M11	19900522	METALS	COPPER	ug/L	<	10	10
FTA-M11	19900522	METALS	IRON	ug/L		71.8	10
FTA-M11	19900522	METALS	LEAD	ug/L	<	20	20
FTA-M11	19900522	METALS	MAGNESIUM	ug/L		2460	30
FTA-M11	19900522	METALS	MANGANESE	ug/L		224	10
FTA-M11	19900522	METALS	MERCURY	ug/L	<	.2	.2
FTA-M11	19900522	METALS	NICKEL	ug/L		35.5	15
FTA-M11	19900522	METALS	POTASSIUM	mg/L		.878	.5
FTA-M11	19900522	METALS	SELENIUM	ug/L	<	1	1
FTA-M11	19900522	METALS	SILVER	ug/L	<	10	10
FTA-M11	19900522	METALS	SILICA	mg/L		1.51	.1
FTA-M11	19900522	METALS	SODIUM	mg/L		2.56	.03
FTA-M11	19900522	METALS	THALLIUM	ug/L	<	30	30
FTA-M11	19900522	METALS	ZINC	ug/L		21.5	10
FTA-M11	19900522	PP	AMMONIA NITROGEN	mg/L		.13	.01
FTA-M11	19900522	PP	OIL & GREASE	mg/L		4	1
FTA-M11	19900522	PP	TOTAL PHENOLS	ug/L	<	5	5
FTA-M11	19900522	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M11	19900522	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M11	19900522	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M11	19900522	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M11	19900522	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M11	19900522	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M11	19900522	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M11	19900522	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M11	19900522	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M11	19900522	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M11	19900522	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M11	19900522	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M11	19900522	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
FTA-M11	19900522	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M11	19900522	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M11	19900522	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M11	19900522	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M11	19900522	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M11	19900522	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M11	19900522	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M11	19900522	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M11	19900522	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M11	19900522	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M11	19900522	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M11	19900522	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M11	19900522	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
FTA-M11	19900522	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M11	19900522	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
FTA-M11	19900522	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M11	19900522	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
FTA-M11	19900522	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M11	19900522	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M11	19900522	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		51.7	50
FTA-M11	19900522	SURR COMP	TOLUENE-D8-S	% ug/L		44.5	50
FTA-M11	19900522	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		40	50
FTA-M12	19900522	PHYSICAL	CONDUCTIVITY	umhos		20	0
FTA-M12	19900522	PHYSICAL	TEMPERATURE	deg C		13.4	0
FTA-M12	19900522	PP	NITRATES	mg/L		.21	.2
FTA-M12	19900522	PHYSICAL	pH	ph		5.59	0
FTA-M12	19900522	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
FTA-M12	19900522	PP	SULFATE	mg/L	<	.5	.5
FTA-M12	19900522	PP	CHLORIDE	mg/L		5.16	2
FTA-M12	19900522	PP	TDS	mg/L		48	10
FTA-M12	19900522	METALS	ANTIMONY	ug/L	<	30	30
FTA-M12	19900522	METALS	ARSENIC	ug/L	<	1	1
FTA-M12	19900522	METALS	BARIUM	ug/L		20.2	5
FTA-M12	19900522	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M12	19900522	METALS	CADMIUM	ug/L	<	5	5
FTA-M12	19900522	METALS	CALCIUM	mg/L		1.07	.01
FTA-M12	19900522	METALS	CHROMIUM	ug/L	<	10	10
FTA-M12	19900522	METALS	COPPER	ug/L		10.8	10
FTA-M12	19900522	METALS	IRON	ug/L		68.2	10
FTA-M12	19900522	METALS	LEAD	ug/L	<	20	20
FTA-M12	19900522	METALS	MAGNESIUM	ug/L		781	30
FTA-M12	19900522	METALS	MANGANESE	ug/L		127	10
FTA-M12	19900522	METALS	MERCURY	ug/L	<	.2	.2
FTA-M12	19900522	METALS	NICKEL	ug/L		15.8	15
FTA-M12	19900522	METALS	POTASSIUM	mg/L		.605	.5
FTA-M12	19900522	METALS	SELENIUM	ug/L	<	1	1
FTA-M12	19900522	METALS	SILVER	ug/L	<	10	10
FTA-M12	19900522	METALS	SILICA	mg/L		2.3	.1
FTA-M12	19900522	METALS	SODIUM	mg/L		2.823	.03
FTA-M12	19900522	METALS	THALLIUM	ug/L	<	30	30
FTA-M12	19900522	METALS	ZINC	ug/L	<	10	10
FTA-M12	19900522	PP	AMMONIA NITROGEN	mg/L		.13	.01
FTA-M12	19900522	PP	OIL & GREASE	mg/L		4	1
FTA-M12	19900522	PP	TOTAL PHENOLS	ug/L	<	5	5
FTA-M12	19900522	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M12	19900522	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M12	19900522	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M12	19900522	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M12	19900522	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M12	19900522	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M12	19900522	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M12	19900522	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M12	19900522	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M12	19900522	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M12	19900522	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M12	19900522	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M12	19900522	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
FTA-M12	19900522	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M12	19900522	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M12	19900522	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M12	19900522	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M12	19900522	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M12	19900522	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
FTA-M12	19900522	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M12	19900522	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M12	19900522	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M12	19900522	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M12	19900522	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M12	19900522	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M12	19900522	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M12	19900522	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M12	19900522	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M12	19900522	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
FTA-M12	19900522	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M12	19900522	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
FTA-M12	19900522	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M12	19900522	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M12	19900522	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		42.6	50
FTA-M12	19900522	SURR COMP	TOLUENE-D8-S	% ug/L		45.2	50
FTA-M12	19900522	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		51.5	50
B1040	19900522	PHYSICAL	CONDUCTIVITY	umhos		50	0
B1040	19900522	PHYSICAL	TEMPERATURE	deg C		13.3	0
B1040	19900522	PP	NITRATES	mg/L		2.06	.2
B1040	19900522	PHYSICAL	pH	ph		5.87	0
B1040	19900522	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
B1040	19900522	PP	SULFATE	mg/L	<	.5	.5
B1040	19900522	PP	CHLORIDE	mg/L		13	2
B1040	19900522	PP	TDS	mg/L		74	10
B1040	19900522	METALS	ANTIMONY	ug/L	<	30	30
B1040	19900522	METALS	ARSENIC	ug/L	<	1	1
B1040	19900522	METALS	BARIUM	ug/L		28	5
B1040	19900522	METALS	BERYLLIUM	ug/L	<	1	1
B1040	19900522	METALS	CADMIUM	ug/L	<	5	5
B1040	19900522	METALS	CALCIUM	mg/L		3.29	.01
B1040	19900522	METALS	CHROMIUM	ug/L	<	10	10
B1040	19900522	METALS	COPPER	ug/L		24.5	10
B1040	19900522	METALS	IRON	ug/L		1190	10
B1040	19900522	METALS	LEAD	ug/L	<	20	20
B1040	19900522	METALS	MAGNESIUM	ug/L		1660	30
B1040	19900522	METALS	MANGANESE	ug/L		138	10
B1040	19900522	METALS	MERCURY	ug/L	<	.2	.2
B1040	19900522	METALS	NICKEL	ug/L	<	15	15
B1040	19900522	METALS	POTASSIUM	mg/L		1.89	.5
B1040	19900522	METALS	SELENIUM	ug/L	<	1	1
B1040	19900522	METALS	SILVER	ug/L	<	10	10
B1040	19900522	METALS	SILICA	mg/L		1.64	.1
B1040	19900522	METALS	SODIUM	mg/L		3.94	.03
B1040	19900522	METALS	THALLIUM	ug/L	<	30	30
B1040	19900522	METALS	ZINC	ug/L		21.2	10
B1040	19900522	PP	AMMONIA NITROGEN	mg/L		.25	.01
B1040	19900522	PP	OIL & GREASE	mg/L		10	1
B1040	19900522	PP	TOTAL PHENOLS	ug/L	<	5	5
B1040	19900522	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
B1040	19900522	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
B1040	19900522	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
B1040	19900522	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
B1040	19900522	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
B1040	19900522	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
B1040	19900522	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
B1040	19900522	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
B1040	19900522	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
B1040	19900522	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
B1040	19900522	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
B1040	19900522	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
B1040	19900522	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
B1040	19900522	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
B1040	19900522	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
B1040	19900522	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
B1040	19900522	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
B1040	19900522	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
B1040	19900522	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
B1040	19900522	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
B1040	19900522	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
B1040	19900522	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
B1040	19900522	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
B1040	19900522	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
B1040	19900522	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
B1040	19900522	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
B1040	19900522	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
B1040	19900522	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
B1040	19900522	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
B1040	19900522	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
B1040	19900522	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
B1040	19900522	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
B1040	19900522	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
B1040	19900522	SURR COMP	1,2-DICHLOROETHANE-04-S	% ug/L		52.6	50
B1040	19900522	SURR COMP	TOLUENE-08-S	% ug/L		49.2	50
B1040	19900522	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		50.6	50
B1041	19900522	PHYSICAL	CONDUCTIVITY	umhos		45	0
B1041	19900522	PHYSICAL	TEMPERATURE	deg C		13	0
B1041	19900522	PP	NITRATES	mg/L		1	.2
B1041	19900522	PHYSICAL	pH	ph		5.25	0
B1041	19900522	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
B1041	19900522	PP	SULFATE	mg/L		3.06	.5
B1041	19900522	PP	CHLORIDE	mg/L		25.1	2
B1041	19900522	PP	TDS	mg/L		74	10
B1041	19900522	METALS	ANTIMONY	ug/L	<	30	30
B1041	19900522	METALS	ARSENIC	ug/L	<	1	1
B1041	19900522	METALS	BARIUM	ug/L		25.5	5
B1041	19900522	METALS	BERYLLIUM	ug/L	<	1	1
B1041	19900522	METALS	CADMIUM	ug/L	<	5	5
B1041	19900522	METALS	CALCIUM	mg/L		2.99	.01
B1041	19900522	METALS	CHROMIUM	ug/L	<	10	10
B1041	19900522	METALS	COPPER	ug/L		20.8	10
B1041	19900522	METALS	IRON	ug/L		170	10
B1041	19900522	METALS	LEAD	ug/L	<	20	20
B1041	19900522	METALS	MAGNESIUM	ug/L		1470	30
B1041	19900522	METALS	MANGANESE	ug/L		155	10
B1041	19900522	METALS	MERCURY	ug/L	<	.2	.2
B1041	19900522	METALS	NICKEL	ug/L		19	15
B1041	19900522	METALS	POTASSIUM	mg/L		.852	.5
B1041	19900522	METALS	SELENIUM	ug/L	<	1	1
B1041	19900522	METALS	SILVER	ug/L	<	10	10
B1041	19900522	METALS	SILICA	mg/L		.142	.1
B1041	19900522	METALS	SODIUM	mg/L		3.64	.03
B1041	19900522	METALS	THALLIUM	ug/L	<	30	30
B1041	19900522	METALS	ZINC	ug/L		17	10
B1041	19900522	PP	AMMONIA NITROGEN	mg/L		.45	.01
B1041	19900522	PP	OIL & GREASE	mg/L		9	1
B1041	19900522	PP	TOTAL PHENOLS	ug/L	<	5	5
B1041	19900522	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
B1041	19900522	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
B1041	19900522	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
B1041	19900522	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
B1041	19900522	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
B1041	19900522	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
B1041	19900522	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
B1041	19900522	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
B1041	19900522	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
B1041	19900522	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
B1041	19900522	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
B1041	19900522	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
B1041	19900522	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
B1041	19900522	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
B1041	19900522	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
B1041	19900522	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
B1041	19900522	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
B1041	19900522	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
B1041	19900522	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
B1041	19900522	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
B1041	19900522	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
B1041	19900522	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
B1041	19900522	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
B1041	19900522	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
B1041	19900522	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
B1041	19900522	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
B1041	19900522	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
B1041	19900522	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
B1041	19900522	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
B1041	19900522	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
B1041	19900522	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
B1041	19900522	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
B1041	19900522	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
B1041	19900522	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		53.5	50
B1041	19900522	SURR COMP	TOLUENE-D8-S	% ug/L		53.9	50
B1041	19900522	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		47.6	50
TRIP BLANK	19900522	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
TRIP BLANK	19900522	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
TRIP BLANK	19900522	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
TRIP BLANK	19900522	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
TRIP BLANK	19900522	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
TRIP BLANK	19900522	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
TRIP BLANK	19900522	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
TRIP BLANK	19900522	PURGEABLE COMPO	BROMODICHLOROMETHANE	ug/L	<	5	5
TRIP BLANK	19900522	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
TRIP BLANK	19900522	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	10	10
TRIP BLANK	19900522	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	5	5
TRIP BLANK	19900522	PURGEABLE COMPO	CHLOROFORM	ug/L	<	10	10
TRIP BLANK	19900522	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	5	5
TRIP BLANK	19900522	PURGEABLE COMPO	DICHLOROBROMOMETHANE	ug/L	<	5	5
TRIP BLANK	19900522	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
TRIP BLANK	19900522	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
TRIP BLANK	19900522	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
TRIP BLANK	19900522	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
TRIP BLANK	19900522	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
TRIP BLANK	19900522	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
TRIP BLANK	19900522	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
TRIP BLANK	19900522	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
TRIP BLANK	19900522	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
TRIP BLANK	19900522	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
TRIP BLANK	19900522	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
TRIP BLANK	19900522	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
TRIP BLANK	19900522	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
TRIP BLANK	19900522	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
TRIP BLANK	19900522	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
TRIP BLANK	19900522	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
TRIP BLANK	19900522	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
TRIP BLANK	19900522	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
TRIP BLANK	19900522	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
TRIP BLANK	19900522	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
TRIP BLANK	19900522	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		48	50
TRIP BLANK	19900522	SURR COMP	TOLUENE-D8-S	% ug/L		44.7	50
TRIP BLANK	19900522	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		53.5	50
BLANK 1	19900522	PP	NITRATES	mg/L	<	.2	.2
BLANK 1	19900522	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
BLANK 1	19900522	PP	SULFATE	mg/L	<	.5	.5
BLANK 1	19900522	PP	CHLORIDE	mg/L	<	2	2
BLANK 1	19900522	PP	TDS	mg/L	<	10	10
BLANK 1	19900522	METALS	ANTIMONY	ug/L	<	30	30
BLANK 1	19900522	METALS	ARSENIC	ug/L	<	1	1
BLANK 1	19900522	METALS	BARIUM	ug/L		13.5	5
BLANK 1	19900522	METALS	BERYLLIUM	ug/L	<	1	1
BLANK 1	19900522	METALS	CADMIUM	ug/L	<	5	5
BLANK 1	19900522	METALS	CALCIUM	mg/L		.367	.01
BLANK 1	19900522	METALS	CHROMIUM	ug/L	<	10	10
BLANK 1	19900522	METALS	COPPER	ug/L		14.2	10
BLANK 1	19900522	METALS	IRON	ug/L		194	10
BLANK 1	19900522	METALS	LEAD	ug/L	<	20	20
BLANK 1	19900522	METALS	MAGNESIUM	ug/L		49.5	30
BLANK 1	19900522	METALS	MANGANESE	ug/L	<	10	10
BLANK 1	19900522	METALS	MERCURY	ug/L	<	.2	.2
BLANK 1	19900522	METALS	NICKEL	ug/L	<	15	15
BLANK 1	19900522	METALS	POTASSIUM	mg/L	<	.5	.5
BLANK 1	19900522	METALS	SELENIUM	ug/L	<	1	1
BLANK 1	19900522	METALS	SILVER	ug/L	<	10	10
BLANK 1	19900522	METALS	SILICA	mg/L		.134	.1
BLANK 1	19900522	METALS	SODIUM	mg/L		.844	.03
BLANK 1	19900522	METALS	THALLIUM	ug/L	<	30	30

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
BLANK 1	19900522	METALS	ZINC	ug/L	<	10	10
BLANK 1	19900522	PP	AMMONIA NITROGEN	mg/L		.11	.01
BLANK 1	19900522	PP	OIL & GREASE	mg/L		6	1
BLANK 1	19900522	PP	TOTAL PHENOLS	ug/L	<	5	5
BLANK 1	19900522	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
BLANK 1	19900522	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
BLANK 1	19900522	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
BLANK 1	19900522	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
BLANK 1	19900522	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
BLANK 1	19900522	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
BLANK 1	19900522	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
BLANK 1	19900522	PURGEABLE COMPO	BROMODICHLOROMETHANE	ug/L	<	5	5
BLANK 1	19900522	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
BLANK 1	19900522	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	10	10
BLANK 1	19900522	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	5	5
BLANK 1	19900522	PURGEABLE COMPO	CHLOROFORM	ug/L	<	10	10
BLANK 1	19900522	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	5	5
BLANK 1	19900522	PURGEABLE COMPO	DICHLOROBROMOMETHANE		<	5	5
BLANK 1	19900522	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
BLANK 1	19900522	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
BLANK 1	19900522	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
BLANK 1	19900522	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
BLANK 1	19900522	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
BLANK 1	19900522	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
BLANK 1	19900522	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
BLANK 1	19900522	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
BLANK 1	19900522	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
BLANK 1	19900522	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
BLANK 1	19900522	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
BLANK 1	19900522	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
BLANK 1	19900522	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
BLANK 1	19900522	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
BLANK 1	19900522	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
BLANK 1	19900522	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
BLANK 1	19900522	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
BLANK 1	19900522	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
BLANK 1	19900522	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
BLANK 1	19900522	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
BLANK 1	19900522	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		54	50
BLANK 1	19900522	SURR COMP	TOLUENE-D8-S	% ug/L		48.7	50
BLANK 1	19900522	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		56.9	50

APPENDIX O

GROUND-WATER CHEMICAL DATA FOR SAMPLE ROUND 3  
JULY 1990



WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M01	19900718	PHYSICAL	pH	ph		5.18	0
FTA-M01	19900718	PHYSICAL	CONDUCTIVITY	umhos		120	0
FTA-M01	19900718	PHYSICAL	TEMPERATURE	deg C		17.9	0
FTA-M01	19900718	PP	NITRATES	mg/L		1.46	.2
FTA-M01	19900718	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
FTA-M01	19900718	PP	SULFATE	mg/L		28.1	.5
FTA-M01	19900718	PP	CHLORIDE	mg/L		11.4	2
FTA-M01	19900718	PP	TDS	mg/L		144	10
FTA-M01	19900718	PP	OIL & GREASE	mg/L	<	5	5
FTA-M01	19900718	ACID EXTRACT	PHENOLS	ug/L	<	5	5
FTA-M01	19900718	METALS	ANTIMONY	ug/L	<	30	30
FTA-M01	19900718	METALS	ARSENIC	ug/L	<	1	1
FTA-M01	19900718	METALS	BARIUM	ug/L	<	10	10
FTA-M01	19900718	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M01	19900718	METALS	CADMIUM	ug/L	<	5	5
FTA-M01	19900718	METALS	CALCIUM	mg/L		11.8	.01
FTA-M01	19900718	METALS	CHROMIUM	ug/L	<	10	10
FTA-M01	19900718	METALS	COPPER	ug/L	<	10	10
FTA-M01	19900718	METALS	IRON	ug/L		231	10
FTA-M01	19900718	METALS	LEAD	ug/L	<	20	20
FTA-M01	19900718	METALS	MAGNESIUM	ug/L		2700	30
FTA-M01	19900718	METALS	MANGANESE	ug/L	<	10	10
FTA-M01	19900718	METALS	MERCURY	ug/L	<	.2	.2
FTA-M01	19900718	METALS	NICKEL	ug/L	<	15	15
FTA-M01	19900718	METALS	POTASSIUM	mg/L		1.48	.1
FTA-M01	19900718	METALS	SELENIUM	ug/L	<	1	1
FTA-M01	19900718	METALS	SILVER	ug/L	<	10	10
FTA-M01	19900718	METALS	SILICON	mg/L		.897	.1
FTA-M01	19900718	METALS	SODIUM	mg/L		9.83	.03
FTA-M01	19900718	METALS	THALLIUM	ug/L	<	30	30
FTA-M01	19900718	METALS	ZINC	ug/L		192	10
FTA-M01	19900718	PP	AMMONIA NITROGEN	mg/L	<	.1	.1
FTA-M01	19900718	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M01	19900718	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M01	19900718	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M01	19900718	PURGEABLE COMPO	BROMODICHLOROMETHANE	ug/L	<	5	5
FTA-M01	19900718	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M01	19900718	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M01	19900718	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M01	19900718	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M01	19900718	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M01	19900718	PURGEABLE COMPO	CHLOROFTHANE	ug/L	<	10	10
FTA-M01	19900718	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M01	19900718	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M01	19900718	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M01	19900718	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M01	19900718	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M01	19900718	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M01	19900718	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M01	19900718	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M01	19900718	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
FTA-M01	19900718	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M01	19900718	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M01	19900718	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M01	19900718	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M01	19900718	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M01	19900718	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M01	19900718	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M01	19900718	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
FTA-M01	19900718	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M01	19900718	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
FTA-M01	19900718	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M01	19900718	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
FTA-M01	19900718	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M01	19900718	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M01	19900718	PURGEABLE COMPO	XYLENES	ug/L	<	5	5
FTA-M01	19900718	TENTATIVELY COM	ETHYLMETHYLCYCLOPENTANE	ug/L	VOA	13	0
FTA-M01	19900718	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		83.6	50
FTA-M01	19900718	SURR COMP	TOLUENE-D8-S	% ug/L		107	50

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M01	19900718	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		87.8	50
FTA-M02	19900719	PHYSICAL	pH	ph	5.3		0
FTA-M02	19900719	PHYSICAL	CONDUCTIVITY	umhos	50		0
FTA-M02	19900719	PHYSICAL	TEMPERATURE	deg C	22		0
FTA-M02	19900719	PP	NITRATES	mg/L	.35		.2
FTA-M02	19900719	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
FTA-M02	19900719	PP	SULFATE	mg/L	19.7		.5
FTA-M02	19900719	PP	CHLORIDE	mg/L	2.04		2
FTA-M02	19900719	PP	TDS	mg/L	114		10
FTA-M02	19900719	PP	OIL & GREASE	mg/L	<	5	5
FTA-M02	19900719	ACID EXTRACT	PHENOLS	ug/L	5.3		5
FTA-M02	19900719	METALS	ANTIMONY	ug/L	<	30	30
FTA-M02	19900719	METALS	ARSENIC	ug/L	<	1	1
FTA-M02	19900719	METALS	BARIUM	ug/L	<	10	10
FTA-M02	19900719	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M02	19900719	METALS	CADMIUM	ug/L	<	5	5
FTA-M02	19900719	METALS	CALCIUM	mg/L	4.77		.01
FTA-M02	19900719	METALS	CHROMIUM	ug/L	<	10	10
FTA-M02	19900719	METALS	COPPER	ug/L	<	10	10
FTA-M02	19900719	METALS	IRON	ug/L	<	10	10
FTA-M02	19900719	METALS	LEAD	ug/L	46		20
FTA-M02	19900719	METALS	MAGNESIUM	ug/L	3700		30
FTA-M02	19900719	METALS	MANGANESE	ug/L	<	10	10
FTA-M02	19900719	METALS	MERCURY	ug/L	<	.2	.2
FTA-M02	19900719	METALS	NICKEL	ug/L	<	15	15
FTA-M02	19900719	METALS	POTASSIUM	mg/L	.828		.1
FTA-M02	19900719	METALS	SELENIUM	ug/L	<	1	1
FTA-M02	19900719	METALS	SILVER	ug/L	<	10	10
FTA-M02	19900719	METALS	SILICON	mg/L	1.84		.1
FTA-M02	19900719	METALS	SODIUM	mg/L	3.19		.03
FTA-M02	19900719	METALS	THALLIUM	ug/L	<	30	30
FTA-M02	19900719	METALS	ZINC	ug/L	<	10	10
FTA-M02	19900719	PP	AMMONIA NITROGEN	mg/L	<	.1	.1
FTA-M02	19900719	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M02	19900719	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M02	19900719	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M02	19900719	PURGEABLE COMPO	BROMODICHLOROMETHANE	ug/L	<	5	5
FTA-M02	19900719	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M02	19900719	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M02	19900719	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M02	19900719	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M02	19900719	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M02	19900719	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M02	19900719	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M02	19900719	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M02	19900719	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M02	19900719	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M02	19900719	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M02	19900719	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M02	19900719	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M02	19900719	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M02	19900719	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
FTA-M02	19900719	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M02	19900719	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M02	19900719	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M02	19900719	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M02	19900719	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M02	19900719	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M02	19900719	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M02	19900719	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
FTA-M02	19900719	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M02	19900719	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
FTA-M02	19900719	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M02	19900719	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
FTA-M02	19900719	PURGEABLE COMPO	TRICHLOROFUOROMETHANE	ug/L	<	10	10
FTA-M02	19900719	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M02	19900719	PURGEABLE COMPO	XYLENES	ug/L	<	5	5
FTA-M02	19900719	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L	83.6		50
FTA-M02	19900719	SURR COMP	TOLUENE-D8-S	% ug/L	107		50

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M02	19900719	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		87.8	50
FTA-M04	19900718	PHYSICAL	pH	ph	5		0
FTA-M04	19900718	PHYSICAL	CONDUCTIVITY	umhos	95		0
FTA-M04	19900718	PHYSICAL	TEMPERATURE	deg C	17.9		0
FTA-M04	19900718	PP	NITRATES	mg/L	2.33		.2
FTA-M04	19900718	PP	ORTHOPHOSPHATE	mg/L	< .2		.2
FTA-M04	19900718	PP	SULFATE	mg/L	19.5		.5
FTA-M04	19900718	PP	CHLORIDE	mg/L	8.24		2
FTA-M04	19900718	PP	TDS	mg/L	128		10
FTA-M04	19900718	PP	OIL & GREASE	mg/L	< 5		5
FTA-M04	19900718	ACID EXTRACT	PHENOLS	ug/L	9.2		5
FTA-M04	19900718	METALS	ANTIMONY	ug/L	< 30		30
FTA-M04	19900718	METALS	ARSENIC	ug/L	< 1		1
FTA-M04	19900718	METALS	BARIUM	ug/L	55		10
FTA-M04	19900718	METALS	BERYLLIUM	ug/L	< 1		1
FTA-M04	19900718	METALS	CADMIUM	ug/L	< 5		5
FTA-M04	19900718	METALS	CALCIUM	mg/L	4.96		.01
FTA-M04	19900718	METALS	CHROMIUM	ug/L	26		10
FTA-M04	19900718	METALS	COPPER	ug/L	< 10		10
FTA-M04	19900718	METALS	IRON	ug/L	5240		10
FTA-M04	19900718	METALS	LEAD	ug/L	< 20		20
FTA-M04	19900718	METALS	MAGNESIUM	ug/L	4030		30
FTA-M04	19900718	METALS	MANGANESE	ug/L	192		10
FTA-M04	19900718	METALS	MERCURY	ug/L	< .2		.2
FTA-M04	19900718	METALS	NICKEL	ug/L	< 15		15
FTA-M04	19900718	METALS	POTASSIUM	mg/L	6.75		.1
FTA-M04	19900718	METALS	SELENIUM	ug/L	< 1		1
FTA-M04	19900718	METALS	SILVER	ug/L	< 10		10
FTA-M04	19900718	METALS	SILICON	mg/L	4.59		.1
FTA-M04	19900718	METALS	SODIUM	mg/L	4.39		.03
FTA-M04	19900718	METALS	THALLIUM	ug/L	< 30		30
FTA-M04	19900718	METALS	ZINC	ug/L	< 10		10
FTA-M04	19900718	PP	AMMONIA NITROGEN	mg/L	< .1		.1
FTA-M04	19900718	PURGEABLE COMPO	ACROLEIN	ug/L	< 10		10
FTA-M04	19900718	PURGEABLE COMPO	ACRYLONITRILE	ug/L	< 10		10
FTA-M04	19900718	PURGEABLE COMPO	BENZENE	ug/L	< 5		5
FTA-M04	19900718	PURGEABLE COMPO	BROMODICHLOROMETHANE	ug/L	< 5		5
FTA-M04	19900718	PURGEABLE COMPO	BROMOFORM	ug/L	< 5		5
FTA-M04	19900718	PURGEABLE COMPO	BROMOMETHANE	ug/L	< 10		10
FTA-M04	19900718	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	< 5		5
FTA-M04	19900718	PURGEABLE COMPO	CHLOROBENZENE	ug/L	< 5		5
FTA-M04	19900718	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	< 5		5
FTA-M04	19900718	PURGEABLE COMPO	CHLOROETHANE	ug/L	< 10		10
FTA-M04	19900708	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	< 5		5
FTA-M04	19900718	PURGEABLE COMPO	CHLOROFORM	ug/L	< 5		5
FTA-M04	19900708	PURGEABLE COMPO	CHLOROMETHANE	ug/L	< 10		10
FTA-M04	19900718	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	< 5		5
FTA-M04	19900718	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	< 5		5
FTA-M04	19900718	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	< 5		5
FTA-M04	19900718	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	< 5		5
FTA-M04	19900718	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	< 5		5
FTA-M04	19900718	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	< 5		5
FTA-M04	19900718	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	< 5		5
FTA-M04	19900718	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	< 5		5
FTA-M04	19900718	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	< 5		5
FTA-M04	19900718	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	< 5		5
FTA-M04	19900718	PURGEABLE COMPO	ETHYLBENZENE	ug/L	< 5		5
FTA-M04	19900718	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	< 10		10
FTA-M04	19900718	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	< 5		5
FTA-M04	19900718	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	< 5		5
FTA-M04	19900718	PURGEABLE COMPO	TOLUENE	ug/L	< 5		5
FTA-M04	19900718	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	< 5		5
FTA-M04	19900718	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	< 5		5
FTA-M04	19900718	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	< 5		5
FTA-M04	19900718	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	< 10		10
FTA-M04	19900718	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	< 10		10
FTA-M04	19900718	PURGEABLE COMPO	XYLENES	ug/L	< 5		5
FTA-M04	19900718	SURR COMP	1,2-DICHLOROETHANE-04-S	% ug/L		86.2	50
FTA-M04	19900718	SURR COMP	TOLUENE-08-S	% ug/L		108	50

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M04	19900718	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		87.2	50
FTA-M05	19900718	PHYSICAL	pH	ph		4.52	0
FTA-M05	19900718	PHYSICAL	CONDUCTIVITY	umhos		57	0
FTA-M05	19900718	PHYSICAL	TEMPERATURE	deg C		18.9	0
FTA-M05	19900718	PP	NITRATES	mg/L		1.42	.2
FTA-M05	19900718	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
FTA-M05	19900718	PP	SULFATE	mg/L		4.35	.5
FTA-M05	19900718	PP	CHLORIDE	mg/L		8.94	2
FTA-M05	19900718	PP	TDS	mg/L		80	10
FTA-M05	19900718	PP	OIL & GREASE	mg/L		7.2	5
FTA-M05	19900718	ACID EXTRACT	PHENOLS	ug/L		6.6	5
FTA-M05	19900718	METALS	ANTIMONY	ug/L	<	30	30
FTA-M05	19900718	METALS	ARSENIC	ug/L	<	1	1
FTA-M05	19900718	METALS	BARIUM	ug/L	<	10	10
FTA-M05	19900718	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M05	19900718	METALS	CADMIUM	ug/L	<	5	5
FTA-M05	19900718	METALS	CALCIUM	mg/L		2.68	.01
FTA-M05	19900718	METALS	CHROMIUM	ug/L	<	10	10
FTA-M05	19900718	METALS	COPPER	ug/L	<	10	10
FTA-M05	19900718	METALS	IRON	ug/L		39	10
FTA-M05	19900718	METALS	LEAD	ug/L	<	20	20
FTA-M05	19900718	METALS	MAGNESIUM	ug/L		1880	30
FTA-M05	19900718	METALS	MANGANESE	ug/L	<	10	10
FTA-M05	19900718	METALS	MERCURY	ug/L	<	.2	.2
FTA-M05	19900718	METALS	NICKEL	ug/L	<	15	15
FTA-M05	19900718	METALS	POTASSIUM	mg/L		.816	.1
FTA-M05	19900718	METALS	SELENIUM	ug/L	<	1	1
FTA-M05	19900718	METALS	SILVER	ug/L	<	10	10
FTA-M05	19900718	METALS	SILICON	mg/L		2.07	.1
FTA-M05	19900718	METALS	SODIUM	mg/L		5	.03
FTA-M05	19900718	METALS	THALLIUM	ug/L	<	30	30
FTA-M05	19900718	METALS	ZINC	ug/L	<	10	10
FTA-M05	19900718	PP	AMMONIA NITROGEN	mg/L	<	.1	.1
FTA-M05	19900718	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M05	19900718	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M05	19900718	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M05	19900718	PURGEABLE COMPO	BROMODICHLOROMETHANE	ug/L	<	5	5
FTA-M05	19900718	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M05	19900718	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M05	19900718	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M05	19900718	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M05	19900718	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M05	19900718	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M05	19900718	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M05	19900718	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M05	19900718	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M05	19900718	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M05	19900718	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M05	19900718	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M05	19900718	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M05	19900718	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M05	19900718	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M05	19900718	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M05	19900718	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M05	19900718	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M05	19900718	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M05	19900718	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M05	19900718	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M05	19900718	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
FTA-M05	19900718	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M05	19900718	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
FTA-M05	19900718	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M05	19900718	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
FTA-M05	19900718	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M05	19900718	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M05	19900718	PURGEABLE COMPO	XYLENES	ug/L	<	5	5
FTA-M05	19900718	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		88.8	50
FTA-M05	19900718	SURR COMP	TOLUENE-D8-S	% ug/L		110	50

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M05	19900718	SURR COMP	4-BROMOPHENOXYBENZENE-S	% ug/L		89.2	50
FTA-M06	19900719	PHYSICAL	pH	ph		5.22	0
FTA-M06	19900719	PHYSICAL	CONDUCTIVITY	umhos		50	0
FTA-M06	19900719	PHYSICAL	TEMPERATURE	deg C		24.9	0
FTA-M06	19900719	PP	NITRATES	mg/L		2.08	.2
FTA-M06	19900719	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
FTA-M06	19900719	PP	SULFATE	mg/L		8.13	.5
FTA-M06	19900719	PP	CHLORIDE	mg/L		13.34	2
FTA-M06	19900719	PP	TDS	mg/L		98	10
FTA-M06	19900719	PP	OIL & GREASE	mg/L	<	5	5
FTA-M06	19900719	ACID EXTRACT	PHENOLS	ug/L		6.9	5
FTA-M06	19900719	METALS	ANTIMONY	ug/L	<	30	30
FTA-M06	19900719	METALS	ARSENIC	ug/L	<	1	1
FTA-M06	19900719	METALS	BARIUM	ug/L	<	10	10
FTA-M05	19900719	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M06	19900719	METALS	CADMIUM	ug/L	<	5	5
FTA-M06	19900719	METALS	CALCIUM	mg/L		4.56	.01
FTA-M06	19900719	METALS	CHROMIUM	ug/L	<	10	10
FTA-M06	19900719	METALS	COPPER	ug/L	<	10	10
FTA-M06	19900719	METALS	IRON	ug/L	<	10	10
FTA-M06	19900719	METALS	LEAD	ug/L	<	20	20
FTA-M06	19900719	METALS	MAGNESIUM	ug/L		3590	30
FTA-M06	19900719	METALS	MANGANESE	ug/L		228	10
FTA-M06	19900719	METALS	MERCURY	ug/L	<	.2	.2
FTA-M06	19900719	METALS	NICKEL	ug/L		41	15
FTA-M06	19900719	METALS	POTASSIUM	mg/L		1.48	.1
FTA-M06	19900719	METALS	SELENIUM	ug/L	<	1	1
FTA-M06	19900719	METALS	SILVER	ug/L	<	10	10
FTA-M06	19900719	METALS	SILICON	mg/L		2.82	.1
FTA-M06	19900719	METALS	SODIUM	mg/L		6.35	.03
FTA-M06	19900719	METALS	THALLIUM	ug/L	<	30	30
FTA-M06	19900719	METALS	ZINC	ug/L	<	10	10
FTA-M06	19900719	PP	AMMONIA NITROGEN	mg/L	<	.1	.1
FTA-M06	19900719	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M06	19900719	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M06	19900719	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M06	19900719	PURGEABLE COMPO	BROMODICHLOROMETHANE	ug/L	<	5	5
FTA-M06	19900719	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M06	19900719	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M06	19900719	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M06	19900719	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M06	19900719	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M06	19900719	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M06	19900719	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M06	19900719	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M06	19900719	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M06	19900719	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M06	19900719	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M06	19900719	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M06	19900719	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M06	19900719	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M06	19900719	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
FTA-M06	19900719	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M06	19900719	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M06	19900719	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M06	19900719	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M06	19900719	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M06	19900719	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M06	19900719	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M06	19900719	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
FTA-M06	19900719	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M06	19900719	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L		5.8	5
FTA-M06	19900719	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M06	19900719	PURGEABLE COMPO	TRICHLOROETHENE	ug/L		162	5
FTA-M06	19900719	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M06	19900719	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M06	19900719	PURGEABLE COMPO	XYLENES	ug/L	<	5	5
FTA-M06	19900719	SURR COMP	1,2-DICHLOROETHANE-04-S	% ug/L		87.4	50
FTA-M06	19900719	SURR COMP	TOLUENE-08-S	% ug/L		110	50

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M06	19900719	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L	87	50	
FTA-M07	19900719	PHYSICAL	pH	ph	4.87	0	
FTA-M07	19900719	PHYSICAL	CONDUCTIVITY	umhos	45	0	
FTA-M07	19900719	PHYSICAL	TEMPERATURE	deg C	19.5	0	
FTA-M07	19900719	PP	NITRATES	mg/L	1.37	.2	
FTA-M07	19900719	PP	ORTHOPHOSPHATE	mg/L	< .2	.2	
FTA-M07	19900719	PP	SULFATE	mg/L	2.8	.5	
FTA-M07	19900719	PP	CHLORIDE	mg/L	3.26	2	
FTA-M07	19900719	PP	TDS	mg/L	94	10	
FTA-M07	19900719	PP	OIL & GREASE	mg/L	< 5	5	
FTA-M07	19900719	ACID EXTRACT	PHENOLS	ug/L	37	5	
FTA-M07	19900719	METALS	ANTIMONY	ug/L	< 30	30	
FTA-M07	19900719	METALS	ARSENIC	ug/L	< 1	1	
FTA-M07	19900719	METALS	BARIUM	ug/L	34	10	
FTA-M07	19900719	METALS	BERYLLIUM	ug/L	< 1	1	
FTA-M07	19900719	METALS	CADMIUM	ug/L	< 5	5	
FTA-M07	19900719	METALS	CALCIUM	mg/L	2.83	.01	
FTA-M07	19900719	METALS	CHROMIUM	ug/L	51	10	
FTA-M07	19900719	METALS	COPPER	ug/L	< 10	10	
FTA-M07	19900719	METALS	IRON	ug/L	21400	10	
FTA-M07	19900719	METALS	LEAD	ug/L	32	20	
FTA-M07	19900719	METALS	MAGNESIUM	ug/L	2810	30	
FTA-M07	19900719	METALS	MANGANESE	ug/L	1160	10	
FTA-M07	19900719	METALS	MERCURY	ug/L	< .2	.2	
FTA-M07	19900719	METALS	NICKEL	ug/L	32	15	
FTA-M07	19900719	METALS	POTASSIUM	mg/L	2	.1	
FTA-M07	19900719	METALS	SELENIUM	ug/L	< 1	1	
FTA-M07	19900719	METALS	SILVER	ug/L	< 10	10	
FTA-M07	19900719	METALS	SILICON	mg/L	11.2	.1	
FTA-M07	19900719	METALS	SODIUM	mg/L	6.6	.03	
FTA-M07	19900719	METALS	THALLIUM	ug/L	< 30	30	
FTA-M07	19900719	METALS	ZINC	ug/L	< 10	10	
FTA-M07	19900719	PP	AMMONIA NITROGEN	mg/L	< .1	.1	
FTA-M07	19900719	PURGEABLE COMPO	ACROLEIN	ug/L	< 10	10	
FTA-M07	19900719	PURGEABLE COMPO	ACRYLONITRILE	ug/L	< 10	10	
FTA-M07	19900719	PURGEABLE COMPO	BENZENE	ug/L	< 5	5	
FTA-M07	19900719	PURGEABLE COMPO	BROMODICHLOROMETHANE	ug/L	< 5	5	
FTA-M07	19900719	PURGEABLE COMPO	BROMOFORM	ug/L	< 5	5	
FTA-M07	19900719	PURGEABLE COMPO	BROMOMETHANE	ug/L	< 10	10	
FTA-M07	19900719	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	< 5	5	
FTA-M07	19900719	PURGEABLE COMPO	CHLOROBENZENE	ug/L	< 5	5	
FTA-M07	19900719	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	< 5	5	
FTA-M07	19900719	PURGEABLE COMPO	CHLOROMETHANE	ug/L	< 10	10	
FTA-M07	19900719	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	< 5	5	
FTA-M07	19900719	PURGEABLE COMPO	CHLOROFORM	ug/L	< 5	5	
FTA-M07	19900719	PURGEABLE COMPO	CHLOROMETHANE	ug/L	< 10	10	
FTA-M07	19900719	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	< 5	5	
FTA-M07	19900719	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	< 5	5	
FTA-M07	19900719	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	< 5	5	
FTA-M07	19900719	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	< 5	5	
FTA-M07	19900719	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	< 5	5	
FTA-M07	19900719	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	6.6	5	
FTA-M07	19900719	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	< 5	5	
FTA-M07	19900719	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	< 5	5	
FTA-M07	19900719	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	< 5	5	
FTA-M07	19900719	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	< 5	5	
FTA-M07	19900719	PURGEABLE COMPO	ETHYLBENZENE	ug/L	< 5	5	
FTA-M07	19900719	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	< 10	10	
FTA-M07	19900719	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	< 5	5	
FTA-M07	19900719	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	< 5	5	
FTA-M07	19900719	PURGEABLE COMPO	TOLUENE	ug/L	9.7	5	
FTA-M07	19900719	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	< 5	5	
FTA-M07	19900719	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	< 5	5	
FTA-M07	19900719	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	< 5	5	
FTA-M07	19900719	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	< 10	10	
FTA-M07	19900719	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	< 10	10	
FTA-M07	19900719	PURGEABLE COMPO	XYLENES	ug/L	< 5	5	
FTA-M07	19900719	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L	87.4	50	
FTA-M07	19900719	SURR COMP	TOLUENE-D8-S	% ug/L	101	50	

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M07	19900719	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		87.8	50
FTA-M07D	19900719	PP	NITRATES	mg/L		1.03	.2
FTA-M07D	19900719	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
FTA-M07D	19900719	PP	SULFATE	mg/L		3.08	.5
FTA-M07D	19900719	PP	CHLORIDE	mg/L		7.42	2
FTA-M07D	19900719	PP	TDS	mg/L		80	10
FTA-M07D	19900719	PP	OIL & GREASE	mg/L	<	5	5
FTA-M07D	19900719	ACID EXTRACT	PHENOLS	ug/L		9	5
FTA-M07D	19900719	METALS	ANTIMONY	ug/L	<	30	30
FTA-M07D	19900719	METALS	ARSENIC	ug/L	<	1	1
FTA-M07D	19900719	METALS	BARIIUM	ug/L	<	10	10
FTA-M07D	19900719	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M07D	19900719	METALS	CADMIUM	ug/L	<	5	5
FTA-M07D	19900719	METALS	CALCIUM	mg/L		2.34	.01
FTA-M07D	19900719	METALS	CHROMIUM	ug/L	<	10	10
FTA-M07D	19900719	METALS	COPPER	ug/L	<	10	10
FTA-M07D	19900719	METALS	IRON	ug/L		499	10
FTA-M07D	19900719	METALS	LEAD	ug/L	<	20	20
FTA-M07D	19900719	METALS	MAGNESIUM	ug/L		1770	30
FTA-M07D	19900719	METALS	MANGANESE	ug/L		251	10
FTA-M07D	19900719	METALS	MERCURY	ug/L	<	.2	.2
FTA-M07D	19900719	METALS	NICKEL	ug/L	<	15	15
FTA-M07D	19900719	METALS	POTASSIUM	mg/L		.56	.1
FTA-M07D	19900719	METALS	SELENIUM	ug/L	<	1	1
FTA-M07D	19900719	METALS	SILVER	ug/L	<	10	10
FTA-M07D	19900719	METALS	SILICON	mg/L		2.84	.1
FTA-M07D	19900719	METALS	SODIUM	mg/L		5.81	.03
FTA-M07D	19900719	METALS	THALLIUM	ug/L	<	30	30
FTA-M07D	19900719	METALS	ZINC	ug/L	<	10	10
FTA-M07D	19900719	PP	AMMONIA NITROGEN	mg/L	<	.1	.1
FTA-M07D	19900719	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M07D	19900719	PURGEABLE COMPO	ACRYLOWITRILE	ug/L	<	10	10
FTA-M07D	19900719	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M07D	19900719	PURGEABLE COMPO	BROMODICHLOROMETHANE	ug/L	<	5	5
FTA-M07D	19900719	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M07D	19900719	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M07D	19900719	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M07D	19900719	PURGEABLE COMPO	CHLORO BENZENE	ug/L	<	5	5
FTA-M07D	19900719	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M07D	19900719	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M07D	19900719	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M07D	19900719	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M07D	19900719	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M07D	19900719	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M07D	19900719	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M07D	19900719	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M07D	19900719	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M07D	19900719	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M07D	19900719	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L		6.9	5
FTA-M07D	19900719	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M07D	19900719	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M07D	19900719	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M07D	19900719	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M07D	19900719	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M07D	19900719	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M07D	19900719	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M07D	19900719	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L		10.2	5
FTA-M07D	19900719	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M07D	19900719	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L		43.2	5
FTA-M07D	19900719	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M07D	19900719	PURGEABLE COMPO	TRICHLOROETHENE	ug/L		62.2	5
FTA-M07D	19900719	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M07D	19900719	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M07D	19900719	PURGEABLE COMPO	XYLENES	ug/L	<	5	5
FTA-M07D	19900719	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		89.8	50
FTA-M07D	19900719	SURR COMP	TOLUENE-D8-S	% ug/L		104	50
FTA-M07D	19900719	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		87.2	50
FTA-M08	19900719	PHYSICAL	ph	ph		4.68	0
FTA-M08	19900719	PHYSICAL	CONDUCTIVITY	umhos		71	0

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M08	19900719	PHYSICAL	TEMPERATURE	deg C		20.5	0
FTA-M08	19900719	PP	NITRATES	mg/L		1.44	.2
FTA-M08	19900719	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
FTA-M08	19900719	PP	SULFATE	mg/L		11.7	.5
FTA-M08	19900719	PP	CHLORIDE	mg/L		11.4	2
FTA-M08	19900719	PP	TDS	mg/L		88	10
FTA-M08	19900719	PP	OIL & GREASE	mg/L	<	5	5
FTA-M08	19900719	ACID EXTRACT	PHENOLS	ug/L		8.4	5
FTA-M08	19900719	METALS	ANTIMONY	ug/L	<	30	30
FTA-M08	19900719	METALS	ARSENIC	ug/L	<	1	1
FTA-M08	19900719	METALS	BARIUM	ug/L		17	10
FTA-M08	19900719	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M08	19900719	METALS	CADMIUM	ug/L	<	5	5
FTA-M08	19900719	METALS	CALCIUM	mg/L		4.05	.01
FTA-M08	19900719	METALS	CHROMIUM	ug/L	<	10	10
FTA-M08	19900719	METALS	COPPER	ug/L	<	10	10
FTA-M08	19900719	METALS	IRON	ug/L		12700	10
FTA-M08	19900719	METALS	LEAD	ug/L	<	20	20
FTA-M08	19900719	METALS	MAGNESIUM	ug/L		3280	30
FTA-M08	19900719	METALS	MANGANESE	ug/L		1360	10
FTA-M08	19900719	METALS	MERCURY	ug/L	<	.2	.2
FTA-M08	19900719	METALS	NICKEL	ug/L	<	15	15
FTA-M08	19900719	METALS	POTASSIUM	mg/L		1.66	.1
FTA-M08	19900719	METALS	SELENIUM	ug/L	<	1	1
FTA-M08	19900719	METALS	SILVER	ug/L	<	10	10
FTA-M08	19900719	METALS	SILICON	mg/L		5.31	.1
FTA-M08	19900719	METALS	SODIUM	mg/L		5.85	.03
FTA-M08	19900719	METALS	THALLIUM	ug/L	<	30	30
FTA-M08	19900719	METALS	ZINC	ug/L	<	10	10
FTA-M08	19900719	PP	AMMONIA NITROGEN	mg/L	<	.1	.1
FTA-M08	19900719	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M08	19900719	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M08	19900719	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M08	19900719	PURGEABLE COMPO	BROMODICHLOROMETHANE	ug/L	<	5	5
FTA-M08	19900719	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M08	19900719	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M08	19900719	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M08	19900719	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M08	19900719	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M08	19900719	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M08	19900719	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M08	19900719	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M08	19900719	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M08	19900719	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M08	19900719	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M08	19900719	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M08	19900719	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L		7.5	5
FTA-M08	19900719	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M08	19900719	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
FTA-M08	19900719	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M08	19900719	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M08	19900719	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M08	19900719	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M08	19900719	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M08	19900719	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M08	19900719	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M08	19900719	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L		6.7	5
FTA-M08	19900719	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M08	19900719	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L		30.5	5
FTA-M08	19900719	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M08	19900719	PURGEABLE COMPO	TRICHLOROETHENE	ug/L		86.8	5
FTA-M08	19900719	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M08	19900719	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M08	19900719	PURGEABLE COMPO	XYLENES	ug/L	<	5	5
FTA-M08	19900719	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		85.2	50
FTA-M08	19900719	SURR COMP	TOLUENE-D8-S	% ug/L		105	50
FTA-M08	19900719	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		88.8	50
FTA-M09	19900719	PHYSICAL	pH	ph		4.99	0
FTA-M09	19900719	PHYSICAL	CONDUCTIVITY	umhos		210	0



WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M09	19900719	PHYSICAL	TEMPERATURE	deg C		21.7	0
FTA-M09	19900719	PP	NITRATES	mg/L		1.76	.2
FTA-M09	19900719	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
FTA-M09	19900719	PP	SULFATE	mg/L		7.41	.5
FTA-M09	19900719	PP	CHLORIDE	mg/L		45.6	2
FTA-M09	19900719	PP	TDS	mg/L		148	10
FTA-M09	19900719	PP	OIL & GREASE	mg/L	<	5	5
FTA-M09	19900719	ACID EXTRACT	PHENOLS	ug/L		6.6	5
FTA-M09	19900719	METALS	ANTIMONY	ug/L	<	30	30
FTA-M09	19900719	METALS	ARSENIC	ug/L	<	1	1
FTA-M09	19900719	METALS	BARIUM	ug/L		153	10
FTA-M09	19900719	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M09	19900719	METALS	CADMIUM	ug/L	<	5	5
FTA-M09	19900719	METALS	CALCIUM	mg/L		8.02	.01
FTA-M09	19900719	METALS	CHROMIUM	ug/L	<	10	10
FTA-M09	19900719	METALS	COPPER	ug/L	<	10	10
FTA-M09	19900719	METALS	IRON	ug/L		23300	10
FTA-M09	19900719	METALS	LEAD	ug/L	<	20	20
FTA-M09	19900719	METALS	MAGNESIUM	ug/L		6410	30
FTA-M09	19900719	METALS	MANGANESE	ug/L		.722	10
FTA-M09	19900719	METALS	MERCURY	ug/L	<	.2	.2
FTA-M09	19900719	METALS	NICKEL	ug/L		40	15
FTA-M09	19900719	METALS	POTASSIUM	mg/L		3.15	.1
FTA-M09	19900719	METALS	SELENIUM	ug/L	<	1	1
FTA-M09	19900719	METALS	SILVER	ug/L	<	10	10
FTA-M09	19900719	METALS	SILICON	mg/L		8.62	.1
FTA-M09	19900719	METALS	SODIUM	mg/L		6.41	.03
FTA-M09	19900719	METALS	THALLIUM	ug/L	<	30	30
FTA-M09	19900719	METALS	ZINC	ug/L	<	10	10
FTA-M09	19900719	PP	AMMONIA NITROGEN	mg/L	<	.1	.1
FTA-M09	19900719	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M09	19900719	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M09	19900719	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M09	19900719	PURGEABLE COMPO	BROMODICHLOROMETHANE	ug/L	<	5	5
FTA-M09	19900719	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M09	19900719	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M09	19900719	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M09	19900719	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M09	19900719	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M09	19900719	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M09	19900719	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M09	19900719	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M09	19900719	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M09	19900719	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M09	19900719	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M09	19900719	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M09	19900719	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M09	19900719	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M09	19900719	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
FTA-M09	19900719	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M09	19900719	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M09	19900719	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M09	19900719	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M09	19900719	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M09	19900719	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M09	19900719	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M09	19900719	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
FTA-M09	19900719	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M09	19900719	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
FTA-M09	19900719	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M09	19900719	PURGEABLE COMPO	TRICHLOROETHENE	ug/L		12	5
FTA-M09	19900719	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M09	19900719	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M09	19900719	PURGEABLE COMPO	XYLENES	ug/L	<	5	5
FTA-M09	19900719	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		90.4	50
FTA-M09	19900719	SURR COMP	TOLUENE-D8-S	% ug/L		104	50
FTA-M09	19900719	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		87.8	50
FTA-M10	19900718	PHYSICAL	pH	ph		5	0
FTA-M10	19900718	PHYSICAL	CONDUCTIVITY	umhos		45	0

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M10	19900718	PHYSICAL	TEMPERATURE	deg C		20.7	0
FTA-M10	19900718	PP	NITRATES	mg/L		1.36	.2
FTA-M10	19900718	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
FTA-M10	19900718	PP	SULFATE	mg/L	<	.5	.5
FTA-M10	19900718	PP	CHLORIDE	mg/L		9.2	2
FTA-M10	19900718	PP	TDS	mg/L		202	10
FTA-M10	19900718	PP	OIL & GREASE	mg/L	<	5	5
FTA-M10	19900718	ACID EXTRACT	PHENOLS	ug/L		9.2	5
FTA-M10	19900718	METALS	ANTIMONY	ug/L	<	30	30
FTA-M10	19900718	METALS	ARSENIC	ug/L	<	1	1
FTA-M10	19900718	METALS	BARIUM	ug/L	<	10	10
FTA-M10	19900718	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M10	19900718	METALS	CADMIUM	ug/L	<	5	5
FTA-M10	19900718	METALS	CALCIUM	mg/L		2.49	.01
FTA-M10	19900718	METALS	CHROMIUM	ug/L	<	10	10
FTA-M10	19900718	METALS	COPPER	ug/L	<	10	10
FTA-M10	19900718	METALS	IRON	ug/L		23200	10
FTA-M10	19900718	METALS	LEAD	ug/L	<	20	20
FTA-M10	19900718	METALS	MAGNESIUM	ug/L		1990	30
FTA-M10	19900718	METALS	MANGANESE	ug/L		274	10
FTA-M10	19900718	METALS	MERCURY	ug/L	<	.2	.2
FTA-M10	19900718	METALS	NICKEL	ug/L		22	15
FTA-M10	19900718	METALS	POTASSIUM	mg/L		2.06	.1
FTA-M10	19900718	METALS	SELENIUM	ug/L	<	1	1
FTA-M10	19900718	METALS	SILVER	ug/L	<	10	10
FTA-M10	19900718	METALS	SILICON	mg/L		9.42	.1
FTA-M10	19900718	METALS	SODIUM	mg/L		6.89	.03
FTA-M10	19900718	METALS	THALLIUM	ug/L	<	30	30
FTA-M10	19900718	METALS	ZINC	ug/L	<	10	10
FTA-M10	19900718	PP	AMMONIA NITROGEN	mg/L	<	.1	.1
FTA-M10	19900718	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M10	19900718	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M10	19900718	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M10	19900718	PURGEABLE COMPO	BROMODICHLOROMETHANE	ug/L	<	5	5
FTA-M10	19900718	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M10	19900718	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M10	19900718	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M10	19900718	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M10	19900718	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M10	19900718	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M10	19900718	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M10	19900718	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M10	19900718	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M10	19900718	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M10	19900718	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M10	19900718	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M10	19900718	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M10	19900718	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M10	19900718	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
FTA-M10	19900718	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M10	19900718	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M10	19900718	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M10	19900718	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M10	19900718	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M10	19900718	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M10	19900718	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M10	19900718	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
FTA-M10	19900718	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M10	19900718	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
FTA-M10	19900718	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M10	19900718	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
FTA-M10	19900718	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M10	19900718	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M10	19900718	PURGEABLE COMPO	XYLENES	ug/L	<	5	5
FTA-M10	19900718	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		88.4	50
FTA-M10	19900718	SURR COMP	TOLUENE-D8-S	% ug/L		105	50
FTA-M10	19900718	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		91.2	50
FTA-M11	19900719	PHYSICAL	PH	ph		4.87	0
FTA-M11	19900719	PHYSICAL	CONDUCTIVITY	umhos		60	0

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M11	19900719	PHYSICAL	TEMPERATURE	deg C		20	0
FTA-M11	19900719	PP	NITRATES	mg/L		1.06	.2
FTA-M11	19900719	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
FTA-M11	19900719	PP	SULFATE	mg/L		21.8	.5
FTA-M11	19900719	PP	CHLORIDE	mg/L		3.46	2
FTA-M11	19900719	PP	TDS	mg/L		92	10
FTA-M11	19900719	PP	OIL & GREASE	mg/L	<	5	5
FTA-M11	19900719	ACID EXTRACT	PHENOLS	ug/L		8.4	5
FTA-M11	19900719	METALS	ANTIMONY	ug/L	<	30	30
FTA-M11	19900719	METALS	ANTIMONY	ug/L	<	30	30
FTA-M11	19900719	METALS	ARSENIC	ug/L	<	1	1
FTA-M11	19900719	METALS	BARIUM	ug/L	<	10	10
FTA-M11	19900719	METALS	BARIUM	ug/L	<	10	10
FTA-M11	19900719	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M11	19900719	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M11	19900719	METALS	CADMIUM	ug/L	<	5	5
FTA-M11	19900719	METALS	CADMIUM	ug/L	<	5	5
FTA-M11	19900719	METALS	CALCIUM	mg/L		4.73	.01
FTA-M11	19900719	METALS	CALCIUM	mg/L		4.62	.01
FTA-M11	19900719	METALS	CHROMIUM	ug/L	<	10	10
FTA-M11	19900719	METALS	CHROMIUM	ug/L	<	10	10
FTA-M11	19900719	METALS	COPPER	ug/L	<	10	10
FTA-M11	19900719	METALS	COPPER	ug/L	<	10	10
FTA-M11	19900719	METALS	IRON	ug/L		6520	10
FTA-M11	19900719	METALS	IRON	ug/L		6810	10
FTA-M11	19900719	METALS	LEAD	ug/L	<	20	20
FTA-M11	19900719	METALS	LEAD	ug/L	<	20	20
FTA-M11	19900719	METALS	MAGNESIUM	ug/L		4200	30
FTA-M11	19900719	METALS	MAGNESIUM	ug/L		3970	30
FTA-M11	19900719	METALS	MANGANESE	ug/L		507	10
FTA-M11	19900719	METALS	MANGANESE	ug/L		525	10
FTA-M11	19900719	METALS	MERCURY	ug/L	<	.2	.2
FTA-M11	19900719	METALS	NICKEL	ug/L	<	15	15
FTA-M11	19900719	METALS	NICKEL	ug/L	<	15	15
FTA-M11	19900719	METALS	POTASSIUM	mg/L		1.56	.1
FTA-M11	19900719	METALS	POTASSIUM	mg/L		1.5	.1
FTA-M11	19900719	METALS	SELENIUM	ug/L	<	1	1
FTA-M11	19900719	METALS	SILVER	ug/L	<	10	10
FTA-M11	19900719	METALS	SILVER	ug/L	<	10	10
FTA-M11	19900719	METALS	SILICON	mg/L		4.59	.1
FTA-M11	19900719	METALS	SILICON	mg/L		5.08	.1
FTA-M11	19900719	METALS	SODIUM	mg/L		3.31	.03
FTA-M11	19900719	METALS	SODIUM	mg/L		3.11	.03
FTA-M11	19900719	METALS	THALLIUM	ug/L	<	30	30
FTA-M11	19900719	METALS	THALLIUM	ug/L	<	30	30
FTA-M11	19900719	METALS	ZINC	ug/L	<	10	10
FTA-M11	19900719	METALS	ZINC	ug/L	<	10	10
FTA-M11	19900719	PP	AMMONIA NITROGEN	mg/L	<	.1	.1
FTA-M11	19900719	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M11	19900719	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M11	19900719	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M11	19900719	PURGEABLE COMPO	BROMODICHLOROMETHANE	ug/L	<	5	5
FTA-M11	19900719	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M11	19900719	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M11	19900719	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M11	19900719	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M11	19900719	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M11	19900719	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M11	19900719	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M11	19900719	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M11	19900719	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M11	19900719	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M11	19900719	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M11	19900719	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M11	19900719	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M11	19900719	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M11	19900719	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
FTA-M11	19900719	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M11	19900719	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M11	19900719	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M11	19900719	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M11	19900719	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M11	19900719	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M11	19900719	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M11	19900719	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
FTA-M11	19900719	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M11	19900719	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
FTA-M11	19900719	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M11	19900719	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
FTA-M11	19900719	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M11	19900719	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M11	19900719	PURGEABLE COMPO	XYLENES	ug/L	<	5	5
FTA-M11	19900719	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		92.6	50
FTA-M11	19900719	SURR COMP	TOLUENE-D8-S	% ug/L		107	50
FTA-M11	19900719	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		91.8	50
FTA-M12	19900719	PHYSICAL	pH	ph		4.91	0
FTA-M12	19900719	PHYSICAL	CONDUCTIVITY	umhos		30	0
FTA-M12	19900719	PHYSICAL	TEMPERATURE	deg C		19.7	0
FTA-M12	19900719	PP	NITRATES	mg/L		.506	.2
FTA-M12	19900719	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
FTA-M12	19900719	PP	SULFATE	mg/L		1.73	.5
FTA-M12	19900719	PP	CHLORIDE	mg/L		6.19	2
FTA-M12	19900719	PP	TDS	mg/L		48	10
FTA-M12	19900719	PP	OIL & GREASE	mg/L	<	5	5
FTA-M12	19900719	ACID EXTRACT	PHENOLS	ug/L		8.2	5
FTA-M12	19900719	METALS	ANTIMONY	ug/L	<	30	30
FTA-M12	19900719	METALS	ARSENIC	ug/L	<	1	1
FTA-M12	19900719	METALS	BARIUM	ug/L		64	10
FTA-M12	19900719	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M12	19900719	METALS	CADMIUM	ug/L		30	5
FTA-M12	19900719	METALS	CALCIUM	mg/L		2	.01
FTA-M12	19900719	METALS	CHROMIUM	ug/L		26	10
FTA-M12	19900719	METALS	COPPER	ug/L	<	10	10
FTA-M12	19900719	METALS	IRON	ug/L		68800	10
FTA-M12	19900719	METALS	LEAD	ug/L	<	20	20
FTA-M12	19900719	METALS	MAGNESIUM	ug/L		1840	30
FTA-M12	19900719	METALS	MANGANESE	ug/L		1110	10
FTA-M12	19900719	METALS	MERCURY	ug/L	<	.2	.2
FTA-M12	19900719	METALS	NICKEL	ug/L		27	15
FTA-M12	19900719	METALS	POTASSIUM	mg/L		2.066	.1
FTA-M12	19900719	METALS	SELENIUM	ug/L	<	1	1
FTA-M12	19900719	METALS	SILVER	ug/L	<	10	10
FTA-M12	19900719	METALS	SILICON	mg/L		11	.1
FTA-M12	19900719	METALS	SODIUM	mg/L		4.01	.03
FTA-M12	19900719	METALS	THALLIUM	ug/L	<	30	30
FTA-M12	19900719	METALS	ZINC	ug/L	<	10	10
FTA-M12	19900719	PP	AMMONIA NITROGEN	mg/L	<	.1	.1
FTA-M12	19900719	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M12	19900719	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M12	19900719	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M12	19900719	PURGEABLE COMPO	BROMODICHLOROMETHANE	ug/L	<	5	5
FTA-M12	19900719	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M12	19900719	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M12	19900719	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M12	19900719	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M12	19900719	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M12	19900719	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M12	19900719	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M12	19900719	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M12	19900719	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M12	19900719	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M12	19900719	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M12	19900719	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M12	19900719	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M12	19900719	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M12	19900719	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
FTA-M12	19900719	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M12	19900719	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M12	19900719	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M12	19900719	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M12	19900719	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
FTA-M12	19900719	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M12	19900719	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M12	19900719	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
FTA-M12	19900719	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M12	19900719	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
FTA-M12	19900719	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M12	19900719	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
FTA-M12	19900719	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M12	19900719	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M12	19900719	PURGEABLE COMPO	XYLENES	ug/L	<	5	5
FTA-M12	19900719	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		87.8	50
FTA-M12	19900719	SURR COMP	TOLUENE-D8-S	% ug/L		106	50
FTA-M12	19900719	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		90.6	50
FTA-M12D	19900719	PP	NITRATES	mg/L	<	.2	.2
FTA-M12D	19900719	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
FTA-M12D	19900719	PP	SULFATE	mg/L	<	.5	.5
FTA-M12D	19900719	PP	CHLORIDE	mg/L	<	2	2
FTA-M12D	19900719	PP	TDS	mg/L		62	10
FTA-M12D	19900719	PP	OIL & GREASE	mg/L	<	5	5
FTA-M12D	19900719	ACID EXTRACT	PHENOLS	ug/L		8.8	5
FTA-M12D	19900719	METALS	ANTIMONY	ug/L	<	30	30
FTA-M12D	19900719	METALS	ARSENIC	ug/L	<	1	1
FTA-M12D	19900719	METALS	BARIUM	ug/L		119	10
FTA-M12D	19900719	METALS	BERYLLIUM	ug/L	<	1	1
FTA-M12D	19900719	METALS	CADMIUM	ug/L		67	5
FTA-M12D	19900719	METALS	CALCIUM	mg/L		1.98	.01
FTA-M12D	19900719	METALS	CHROMIUM	ug/L		62	10
FTA-M12D	19900719	METALS	COPPER	ug/L		17	10
FTA-M12D	19900719	METALS	IRON	ug/L		91800	10
FTA-M12D	19900719	METALS	LEAD	ug/L		39	20
FTA-M12D	19900719	METALS	MAGNESIUM	ug/L		2080	30
FTA-M12D	19900719	METALS	MANGANESE	ug/L		1220	10
FTA-M12D	19900719	METALS	MERCURY	ug/L	<	.2	.2
FTA-M12D	19900719	METALS	NICKEL	ug/L		36	15
FTA-M12D	19900719	METALS	POTASSIUM	mg/L		2.14	.1
FTA-M12D	19900719	METALS	SELENIUM	ug/L	<	1	1
FTA-M12D	19900719	METALS	SILVER	ug/L	<	10	10
FTA-M12D	19900719	METALS	SILICON	mg/L		12	.1
FTA-M12D	19900719	METALS	SODIUM	mg/L		3.61	.03
FTA-M12D	19900719	METALS	THALLIUM	ug/L	<	30	30
FTA-M12D	19900719	METALS	ZINC	ug/L	<	10	10
FTA-M12D	19900719	PP	AMMONIA NITROGEN	mg/L	<	.1	.1
FTA-M12D	19900719	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
FTA-M12D	19900719	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
FTA-M12D	19900719	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
FTA-M12D	19900719	PURGEABLE COMPO	BROMODICHLOROMETHANE	ug/L	<	5	5
FTA-M12D	19900719	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
FTA-M12D	19900719	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
FTA-M12D	19900719	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
FTA-M12D	19900719	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
FTA-M12D	19900719	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
FTA-M12D	19900719	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
FTA-M12D	19900719	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
FTA-M12D	19900719	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
FTA-M12D	19900719	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
FTA-M12D	19900719	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
FTA-M12D	19900719	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
FTA-M12D	19900719	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
FTA-M12D	19900719	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
FTA-M12D	19900719	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
FTA-M12D	19900719	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
FTA-M12D	19900719	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
FTA-M12D	19900719	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
FTA-M12D	19900719	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M12D	19900719	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
FTA-M12D	19900719	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
FTA-M12D	19900719	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
FTA-M12D	19900719	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
FTA-M12D	19900719	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
FTA-M12D	19900719	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
FTA-M12D	19900719	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
FTA-M12D	19900719	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
FTA-M12D	19900719	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
FTA-M12D	19900719	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
FTA-M12D	19900719	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
FTA-M12D	19900719	PURGEABLE COMPO	XYLENES	ug/L	<	5	5
FTA-M12D	19900719	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		89	50
FTA-M12D	19900719	SURR COMP	TOLUENE-D8-S	% ug/L		109	50
FTA-M12D	19900719	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		87.6	50
B1040	19900718	PHYSICAL	PH	ph		6.14	0
B1040	19900718	PHYSICAL	CONDUCTIVITY	umhos		79	0
B1040	19900718	PHYSICAL	TEMPERATURE	deg C		17.6	0
B1040	19900718	PP	NITRATES	mg/L	<	.2	.2
B1040	19900718	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
B1040	19900718	PP	SULFATE	mg/L		4.46	.5
B1040	19900718	PP	CHLORIDE	mg/L		9.76	2
B1040	19900718	PP	TDS	mg/L		74	10
B1040	19900718	PP	OIL & GREASE	mg/L	<	5	5
B1040	19900718	ACID EXTRACT	PHENOLS	ug/L		28	5
B1040	19900718	METALS	ANTIMONY	ug/L	<	30	30
B1040	19900718	METALS	ARSENIC	ug/L	<	1	1
B1040	19900718	METALS	BARIUM	ug/L	<	10	10
B1040	19900718	METALS	BERYLLIUM	ug/L	<	1	1
B1040	19900718	METALS	CADMIUM	ug/L	<	5	5
B1040	19900718	METALS	CALCIUM	mg/L		4.85	.01
B1040	19900718	METALS	CHROMIUM	ug/L	<	10	10
B1040	19900718	METALS	COPPER	ug/L		43	10
B1040	19900718	METALS	IRON	ug/L		2700	10
B1040	19900718	METALS	LEAD	ug/L	<	20	20
B1040	19900718	METALS	MAGNESIUM	ug/L		2340	30
B1040	19900718	METALS	MANGANESE	ug/L		146	10
B1040	19900718	METALS	MERCURY	ug/L	<	.2	.2
B1040	19900718	METALS	NICKEL	ug/L	<	15	15
B1040	19900718	METALS	POTASSIUM	mg/L		3.34	.1
B1040	19900718	METALS	SELENIUM	ug/L	<	1	1
B1040	19900718	METALS	SILVER	ug/L	<	10	10
B1040	19900718	METALS	SILICON	mg/L		1.85	.1
B1040	19900718	METALS	SODIUM	mg/L		5.82	.03
B1040	19900718	METALS	THALLIUM	ug/L	<	30	30
B1040	19900718	METALS	ZINC	ug/L	<	10	10
B1040	19900718	PP	AMMONIA NITROGEN	mg/L	<	.1	.1
B1040	19900718	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
B1040	19900718	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
B1040	19900718	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
B1040	19900718	PURGEABLE COMPO	BROMODICHLOROMETHANE	ug/L	<	5	5
B1040	19900718	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
B1040	19900718	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
B1040	19900718	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
B1040	19900718	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
B1040	19900718	PURGEABLE COMPO	CHLOROISOBROMOMETHANE	ug/L	<	5	5
B1040	19900718	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
B1040	19900718	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
B1040	19900718	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
B1040	19900718	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
B1040	19900718	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
B1040	19900718	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
B1040	19900718	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
B1040	19900718	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
B1040	19900718	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
B1040	19900718	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
B1040	19900718	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
B1040	19900718	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
B1040	19900718	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
B1040	19900718	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
B1040	19900718	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
B1040	19900718	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
B1040	19900718	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
B1040	19900718	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
B1040	19900718	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
B1040	19900718	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
B1040	19900718	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
B1040	19900718	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
B1040	19900718	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
B1040	19900718	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
B1040	19900718	PURGEABLE COMPO	XYLENES	ug/L	<	5	5
B1040	19900718	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		87.4	50
B1040	19900718	SURR COMP	TOLUENE-D8-S	% ug/L		107	50
B1040	19900718	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		89.4	50
B1041	19900718	PHYSICAL	pH	ph		66.6	0
B1041	19900718	PHYSICAL	CONDUCTIVITY	umhos		89	0
B1041	19900718	PHYSICAL	TEMPERATURE	deg C		23.3	0
B1041	19900718	PP	NITRATES	mg/L		.679	.2
B1041	19900718	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
B1041	19900718	PP	SULFATE	mg/L	<	.5	.5
B1041	19900718	PP	CHLORIDE	mg/L		8.98	2
B1041	19900718	PP	TDS	mg/L		68	10
B1041	19900718	PP	OIL & GREASE	mg/L	<	5	5
B1041	19900718	ACID EXTRACT	PHENOLS	ug/L		63	5
B1041	19900718	METALS	ANTIMONY	ug/L	<	30	30
B1041	19900718	METALS	ARSENIC	ug/L	<	1	1
B1041	19900718	METALS	BARIUM	ug/L	<	10	10
B1041	19900718	METALS	BERYLLIUM	ug/L	<	1	1
B1041	19900718	METALS	CADMIUM	ug/L	<	5	5
B1041	19900718	METALS	CALCIUM	mg/L		4.78	.01
B1041	19900718	METALS	CHROMIUM	ug/L	<	10	10
B1041	19900718	METALS	COPPER	ug/L		45	10
B1041	19900718	METALS	IRON	ug/L		248	10
B1041	19900718	METALS	LEAD	ug/L		57	20
B1041	19900718	METALS	MAGNESIUM	ug/L		2070	30
B1041	19900718	METALS	MANGANESE	ug/L		155	10
B1041	19900718	METALS	MERCURY	ug/L	<	.2	.2
B1041	19900718	METALS	NICKEL	ug/L		19	15
B1041	19900718	METALS	POTASSIUM	mg/L		1.08	.1
B1041	19900718	METALS	SELENIUM	ug/L	<	1	1
B1041	19900718	METALS	SILVER	ug/L	<	10	10
B1041	19900718	METALS	SILICON	mg/L		1.79	.1
B1041	19900718	METALS	SODIUM	mg/L		4.92	.03
B1041	19900718	METALS	THALLIUM	ug/L	<	30	30
B1041	19900718	METALS	ZINC	ug/L	<	10	10
B1041	19900718	PP	AMMONIA NITROGEN	mg/L	<	.1	.1
B1041	19900718	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
B1041	19900718	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
B1041	19900718	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
B1041	19900718	PURGEABLE COMPO	BROMODICHLOROMETHANE	ug/L	<	5	5
B1041	19900718	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
B1041	19900718	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
B1041	19900718	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
B1041	19900718	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
B1041	19900718	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
B1041	19900718	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
B1041	19900718	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
B1041	19900718	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
B1041	19900718	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
B1041	19900718	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
B1041	19900718	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
B1041	19900718	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
B1041	19900718	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
B1041	19900718	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
B1041	19900718	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
B1041	19900718	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
B1041	19900718	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
B1041	19900718	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
B1041	19900718	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
B1041	19900718	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
B1041	19900718	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
B1041	19900718	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
B1041	19900718	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
B1041	19900718	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
B1041	19900718	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
B1041	19900718	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
B1041	19900718	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
B1041	19900718	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
B1041	19900718	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
B1041	19900718	PURGEABLE COMPO	XYLENES	ug/L	<	5	5
B1041	19900718	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		88.2	50
B1041	19900718	SURR COMP	TOLUENE-D8-S	% ug/L		103	50
B1041	19900718	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		89.8	50
BLANK 1	19900718	PP	NITRATES	mg/L	<	.2	.2
BLANK 1	19900718	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
BLANK 1	19900718	PP	SULFATE	mg/L	<	.5	.5
BLANK 1	19900718	PP	CHLORIDE	mg/L	<	2	2
BLANK 1	19900718	PP	TDS	mg/L	<	10	10
BLANK 1	19900718	PP	OIL & GREASE	mg/L	<	5	5
BLANK 1	19900718	ACID EXTRACT	PHENOLS	ug/L	<	5	5
BLANK 1	19900718	METALS	ANTIMONY	ug/L	<	30	30
BLANK 1	19900718	METALS	ARSENIC	ug/L	<	1	1
BLANK 1	19900718	METALS	BARIUM	ug/L	<	10	10
BLANK 1	19900718	METALS	BERYLLIUM	ug/L	<	1	1
BLANK 1	19900718	METALS	CADMIUM	ug/L	<	5	5
BLANK 1	19900718	METALS	CALCIUM	mg/L		.681	.01
BLANK 1	19900718	METALS	CHROMIUM	ug/L	<	10	10
BLANK 1	19900718	METALS	COPPER	ug/L	<	10	10
BLANK 1	19900718	METALS	IRON	ug/L	<	10	10
BLANK 1	19900718	METALS	LEAD	ug/L	<	20	20
BLANK 1	19900718	METALS	MAGNESIUM	ug/L	<	62	30
BLANK 1	19900718	METALS	MANGANESE	ug/L	<	10	10
BLANK 1	19900718	METALS	MERCURY	ug/L	<	.2	.2
BLANK 1	19900718	METALS	NICKEL	ug/L	<	15	15
BLANK 1	19900718	METALS	POTASSIUM	mg/L	<	.1	.1
BLANK 1	19900718	METALS	SELENIUM	ug/L	<	1	1
BLANK 1	19900718	METALS	SILVER	ug/L	<	10	10
BLANK 1	19900718	METALS	SILICON	mg/L		.324	.1
BLANK 1	19900718	METALS	SODIUM	mg/L		1.01	.03
BLANK 1	19900718	METALS	THALLIUM	ug/L	<	30	30
BLANK 1	19900718	PP	ZINC	ug/L	<	10	10
BLANK 1	19900718	PP	AMMONIA NITROGEN	mg/L	<	.1	.1
BLANK 1	19900718	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
BLANK 1	19900718	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
BLANK 1	19900718	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
BLANK 1	19900718	PURGEABLE COMPO	BROMODICHLOROMETHANE	ug/L	<	5	5
BLANK 1	19900718	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
BLANK 1	19900718	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
BLANK 1	19900718	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
BLANK 1	19900718	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
BLANK 1	19900718	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
BLANK 1	19900718	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
BLANK 1	19900718	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
BLANK 1	19900718	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5
BLANK 1	19900718	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
BLANK 1	19900718	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
BLANK 1	19900718	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
BLANK 1	19900718	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
BLANK 1	19900718	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
BLANK 1	19900718	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
BLANK 1	19900718	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
BLANK 1	19900718	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
BLANK 1	19900718	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
BLANK 1	19900718	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
BLANK 1	19900718	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
BLANK 1	19900718	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
BLANK 1	19900718	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
BLANK 1	19900718	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
BLANK 1	19900718	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5



WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
BLANK 1	19900718	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
BLANK 1	19900718	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
BLANK 1	19900718	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
BLANK 1	19900718	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
BLANK 1	19900718	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
BLANK 1	19900718	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
BLANK 1	19900718	PURGEABLE COMPO	XYLENES	ug/L	<	5	5
BLANK 1	19900718	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		83.6	50
BLANK 1	19900718	SURR COMP	TOLUENE-D8-S	% ug/L		106	50
BLANK 1	19900718	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		105	50
BLANK 2	19900719	PP	NITRATES	mg/L	<	.2	.2
BLANK 2	19900719	PP	ORTHOPHOSPHATE	mg/L	<	.2	.2
BLANK 2	19900719	PP	SULFATE	mg/L	<	.5	.5
BLANK 2	19900719	PP	CHLORIDE	mg/L	<	2	2
BLANK 2	19900719	PP	TDS	mg/L	<	10	10
BLANK 2	19900719	PP	OIL & GREASE	mg/L	<	5	5
BLANK 2	19900719	ACID EXTRACT	PHENOLS	ug/L	<	5	5
BLANK 2	19900719	METALS	ANTIMONY	ug/L	<	30	30
BLANK 2	19900719	METALS	ANTIMONY	ug/L	<	30	30
BLANK 2	19900719	METALS	ARSENIC	ug/L	<	1	1
BLANK 2	19900719	METALS	BARIIUM	ug/L	<	10	10
BLANK 2	19900719	METALS	BARIIUM	ug/L	<	10	10
BLANK 2	19900719	METALS	BERYLLIUM	ug/L	<	1	1
BLANK 2	19900719	METALS	BERYLLIUM	ug/L	<	1	1
BLANK 2	19900719	METALS	CADMIUM	ug/L	<	5	5
BLANK 2	19900719	METALS	CADMIUM	ug/L	<	5	5
BLANK 2	19900719	METALS	CALCIUM	mg/L		.964	.01
BLANK 2	19900719	METALS	CALCIUM	mg/L		.835	.01
BLANK 2	19900719	METALS	CHROMIUM	ug/L	<	10	10
BLANK 2	19900719	METALS	CHROMIUM	ug/L	<	10	10
BLANK 2	19900719	METALS	COPPER	ug/L	<	10	10
BLANK 2	19900719	METALS	COPPER	ug/L	<	10	10
BLANK 2	19900719	METALS	IRON	ug/L	<	10	10
BLANK 2	19900719	METALS	IRON	ug/L	<	10	10
BLANK 2	19900719	METALS	LEAD	ug/L	<	20	20
BLANK 2	19900719	METALS	LEAD	ug/L	<	20	20
BLANK 2	19900719	METALS	MAGNESIUM	ug/L		137	30
BLANK 2	19900719	METALS	MAGNESIUM	ug/L		83	30
BLANK 2	19900719	METALS	MANGANESE	ug/L	<	10	10
BLANK 2	19900719	METALS	MANGANESE	ug/L	<	10	10
BLANK 2	19900719	METALS	MERCURY	ug/L	<	.2	.2
BLANK 2	19900719	METALS	NICKEL	ug/L	<	15	15
BLANK 2	19900719	METALS	NICKEL	ug/L	<	15	15
BLANK 2	19900719	METALS	POTASSIUM	mg/L		.351	.1
BLANK 2	19900719	METALS	POTASSIUM	mg/L		.495	.1
BLANK 2	19900719	METALS	SELENIUM	ug/L	<	1	1
BLANK 2	19900719	METALS	SILVER	ug/L	<	10	10
BLANK 2	19900719	METALS	SILVER	ug/L	<	10	10
BLANK 2	19900719	METALS	SILICON	mg/L		.3	.1
BLANK 2	19900719	METALS	SILICON	mg/L		.37	.1
BLANK 2	19900719	METALS	SODIUM	mg/L		1.13	.03
BLANK 2	19900719	METALS	SODIUM	mg/L		1.33	.03
BLANK 2	19900719	METALS	THALLIUM	ug/L		72	30
BLANK 2	19900719	METALS	THALLIUM	ug/L		69	30
BLANK 2	19900719	METALS	ZINC	ug/L	<	10	10
BLANK 2	19900719	METALS	ZINC	ug/L	<	10	10
BLANK 2	19900719	PP	AMMONIA NITROGEN	mg/L	<	.1	.1
BLANK 2	19900719	PURGEABLE COMPO	ACROLEIN	ug/L	<	10	10
BLANK 2	19900719	PURGEABLE COMPO	ACRYLONITRILE	ug/L	<	10	10
BLANK 2	19900719	PURGEABLE COMPO	BENZENE	ug/L	<	5	5
BLANK 2	19900719	PURGEABLE COMPO	BROMODICHLOROMETHANE	ug/L	<	5	5
BLANK 2	19900719	PURGEABLE COMPO	BROMOFORM	ug/L	<	5	5
BLANK 2	19900719	PURGEABLE COMPO	BROMOMETHANE	ug/L	<	10	10
BLANK 2	19900719	PURGEABLE COMPO	CARBON TETRACHLORIDE	ug/L	<	5	5
BLANK 2	19900719	PURGEABLE COMPO	CHLOROBENZENE	ug/L	<	5	5
BLANK 2	19900719	PURGEABLE COMPO	CHLORODIBROMOMETHANE	ug/L	<	5	5
BLANK 2	19900719	PURGEABLE COMPO	CHLOROETHANE	ug/L	<	10	10
BLANK 2	19900719	PURGEABLE COMPO	2-CHLOROETHYL VINYL ETHER	ug/L	<	5	5
BLANK 2	19900719	PURGEABLE COMPO	CHLOROFORM	ug/L	<	5	5

WELL #	DATE	HEADING	PARAMETER	UNIT	VALUE	DET	DET LIM
BLANK 2	19900719	PURGEABLE COMPO	CHLOROMETHANE	ug/L	<	10	10
BLANK 2	19900719	PURGEABLE COMPO	1,2-DICHLOROBENZENE	ug/L	<	5	5
BLANK 2	19900719	PURGEABLE COMPO	1,3-DICHLOROBENZENE	ug/L	<	5	5
BLANK 2	19900719	PURGEABLE COMPO	1,4-DICHLOROBENZENE	ug/L	<	5	5
BLANK 2	19900719	PURGEABLE COMPO	1,1-DICHLOROETHANE	ug/L	<	5	5
BLANK 2	19900719	PURGEABLE COMPO	1,2-DICHLOROETHANE	ug/L	<	5	5
BLANK 2	19900719	PURGEABLE COMPO	1,1-DICHLOROETHENE	ug/L	<	5	5
BLANK 2	19900719	PURGEABLE COMPO	TRANS-1,2-DICHLOROETHENE	ug/L	<	5	5
BLANK 2	19900719	PURGEABLE COMPO	1,2-DICHLOROPROPANE	ug/L	<	5	5
BLANK 2	19900719	PURGEABLE COMPO	CIS-1,3-DICHLOROPROPENE	ug/L	<	5	5
BLANK 2	19900719	PURGEABLE COMPO	TRANS-1,3-DICHLOROPROPENE	ug/L	<	5	5
BLANK 2	19900719	PURGEABLE COMPO	ETHYLBENZENE	ug/L	<	5	5
BLANK 2	19900719	PURGEABLE COMPO	METHYLENE CHLORIDE	ug/L	<	10	10
BLANK 2	19900719	PURGEABLE COMPO	1,1,2,2-TETRACHLOROETHANE	ug/L	<	5	5
BLANK 2	19900719	PURGEABLE COMPO	TETRACHLOROETHENE	ug/L	<	5	5
BLANK 2	19900719	PURGEABLE COMPO	TOLUENE	ug/L	<	5	5
BLANK 2	19900719	PURGEABLE COMPO	1,1,1-TRICHLOROETHANE	ug/L	<	5	5
BLANK 2	19900719	PURGEABLE COMPO	1,1,2-TRICHLOROETHANE	ug/L	<	5	5
BLANK 2	19900719	PURGEABLE COMPO	TRICHLOROETHENE	ug/L	<	5	5
BLANK 2	19900719	PURGEABLE COMPO	TRICHLOROFLUOROMETHANE	ug/L	<	10	10
BLANK 2	19900719	PURGEABLE COMPO	VINYL CHLORIDE	ug/L	<	10	10
BLANK 2	19900719	PURGEABLE COMPO	XYLENES	ug/L	<	5	5
BLANK 2	19900719	SURR COMP	1,2-DICHLOROETHANE-D4-S	% ug/L		83.6	50
BLANK 2	19900719	SURR COMP	TOLUENE-D8-S	% ug/L		108	50
BLANK 2	19900719	SURR COMP	4-BROMOFLUOROBENZENE-S	% ug/L		87.6	50

#### **Waterways Experiment Station Cataloging-in-Publication Data**

Aberdeen Area Fire Training Area hydrologic assessment Aberdeen Proving Ground / by Charlie B. Whitten ... [et al.] ; prepared for Environmental Management Division, Directorate of Safety, Health and Environment, Aberdeen Proving Ground.

325 p. : ill. ; 28 cm. — (Technical report ; GL-92-20)

Includes bibliographical references.

1. Water quality management — Maryland — Aberdeen Proving Ground.
  2. Aberdeen Proving Ground (Md.) — Water-supply.
  3. Water, Underground — Maryland — Aberdeen Proving Ground.
  4. Environmental monitoring — Maryland — Aberdeen Proving Ground.
- I. Whitten, Charlie B. II. Aberdeen Proving Ground (Md.). Office of Environmental Management. III. US Army Engineer Waterways Experiment Station. IV. Series: Technical report (US Army Engineer Waterways Experiment Station) ; GL-92-20.
- TA7 W34 no.GL-92-20